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SIGMA XI

QUARTER CENTURY RECORD AND HISTORY

1886-1911

COMPILED BY

HENRY BALDWIN WARD

SECRETARY OF THE SOCIETY OF THE SIGMA XI

WITH THE ASSISTANCE OF THE
CHAPTER SECRETARIES

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PREFACE

The Baltimore Convention of the Society instructed the Corresponding Secretary in 1909 to prepare a complete catalog of the membership. The Washington Convention in 1911 authorized the printing of the list. The result is this book. The preparation of the record has demanded a large amount of work for which the Society is indebted first of all to the secretaries of the individual chapters. Rapid rotation in office, frequent shifts in the personnel of a chapter, and the lack of permanent records have made it difficult to ascertain accurately some of the important facts in the history of almost every chapter despite the prolonged efforts of the present-day officers and of the resident members. In one case (Ohio) all of the original records were destroyed by fire and in other chapters early record books and papers cannot be found.

The membership list of each chapter is published on the authority of the Chapter Secretary, and each chapter history is signed by him. In addition, I have spared no effort to help make each list complete and to correct all errors. The delays incident to the investigation of doubts arising in reading manuscript and proof have led to the discovery of numerous errors, and have resulted as a matter of fact in demonstrating the omission of some forty names from one chapter list; yet this has postponed the appearance of the book many months. It is too much to hope that all errors have been corrected; for any that still remain I ask the most charitable consideration of all.

By vote of the Washington Convention the list was limited to the membership on December 31, 1911, and each member was to be given the position held at that date. There have been changes, of course, but this book is more than a mere address list, and despite the changes the record indicates closely the present relations of the membership.

The examination of original records and the study of the history of Sigma Xi has proved very interesting to me and I trust the results may appeal to others. This history forms clearly an important part of the movement that has led to a new conception of educational values and a new emphasis in educational work. The men who have been leaders in Sigma Xi have been also prophets of the new education. It is fitting to chronicle their work in the establishment of the organization. But the records are scanty. In spite of extended investigation of all available sources I fear I have not done full justice to some of the men who have

unselfishly devoted time and energy to establish high ideals of scholarship in science. No one can record properly the influence of the army of less conspicuous workers who have contributed powerfully to build up the Society as it is to-day. Sigma Xi itself stands as the evidence of their loyalty to ideals.

To the numerous enthusiastic helpers who have prepared copy, checked lists and data, and done the many other tiresome things which have made this record possible, I wish to express my sincere thanks. To those who are the victims of the errors that still remain, I offer my heartfelt apologies.

HENRY B. WARD.

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FOUNDERS OF THE SOCIETY OF THE SIGMA XI AND CHARTER MEMBERS OF THE ALPHA CHAPTER

William Asher Day

John Jacob Berger

John Knickerbacker

William Addams Mosscrop

William Herman Riley

Edwin Nash Sanderson

Harry Ezra Smith

Frank Van Vleck

Charles Benjamin Wing

Henry Shaler Williams

ACTIVE CHAPTERS OF THE SIGMA XI SOCIETY

Number	*Institution*	*Location*	*Founded*
1	Cornell University	Ithaca, New York	1886
2	Rensselaer Polytechnic Institute	Troy, New York	1887
3	Union College	Schenectady, New York	1887
4	The University of Kansas	Lawrence, Kansas	1890
5	Yale University	New Haven, Connecticut	1895
6	The University of Minnesota	Minneapolis, Minnesota	1896
7	The University of Nebraska	Lincoln, Nebraska	1897
8	Ohio State University	Columbus, Ohio	1898
9	University of Pennsylvania	Philadelphia, Pennsylvania	1899
10	Brown University	Providence, Rhode Island	1900
11	The State University of Iowa	Iowa City, Iowa	1900
12	Leland Stanford Junior University	Palo Alto, California	1901
13	University of California	Berkeley, California	1902
14	Columbia University	New York City	1902
15	The University of Chicago	Chicago, Illinois	1903
16	University of Michigan	Ann Arbor, Michigan	1903
17	University of Illinois	Urbana, Illinois	1903
18	Case School of Applied Science	Cleveland, Ohio	1904
19	Indiana University	Bloomington, Indiana	1904
20	University of Missouri	Columbia, Missouri	1905
21	University of Colorado	Boulder, Colorado	1905
22	Northwestern University	Evanston, Illinois	1906
23	Syracuse University	Syracuse, New York	1906
24	The University of Wisconsin	Madison, Wisconsin	1907
25	University of Washington	Seattle, Washington	1907
26	Worcester Polytechnic Institute	Worcester, Massachusetts	1908
27	Purdue University	Lafayette, Indiana	1909
28	Washington University	Saint Louis, Missouri	1910

DEFUNCT CHAPTERS

Beta	Stevens Institute of Technology	Hoboken, New Jersey	1887
Delta	Rutgers College	New Brunswick, New Jersey	1887

Note. The numbers are those used in recent statistical tables, printed in the annual convention proceedings. They indicate the order of founding the active chapters but possess no official significance.

GENERAL CONVENTIONS OF SIGMA XI

I	Ithaca	May 17, 18	1893	*4
II	Springfield	August 28, 29	1895	5
III	Toronto	August 20	1897	6
IV	Columbus	August 22, 23	1899	8
V	Denver	August 28	1901	11
VI	Washington	December 30	1902	14
VII	Philadelphia	December 29	1904	19
VIII	New York	December 31	1906	19
(IX)	Chicago	January 3	1908	26
X	Baltimore†	January 2	1909	26
XI	Boston	December 29	1909	27
XII	Minneapolis	December 30	1910	28
XIII	Washington	December 28	1911	28

* Total number of chapters in active membership in the Society and entitled to representation in the Convention.

† To avoid any possible confusion in the change from biennial to annual conventions, this is numbered the tenth, although the special convention in Chicago was not styled the ninth in the published proceedings. [From title page of the Proceedings of the Baltimore Convention.]

THE COUNCIL FOR 1911–1912

EX-OFFICIIS

President . . . . . Henry Turner Eddy (Minnesota)
Vice-President . . . . John Merle Coulter (Chicago)
Recording Secretary . . . Dayton Clarence Miller (Case)
Corresponding Secretary . . Henry Baldwin Ward (Illinois)
Treasurer . . . . . James Furman Kemp (Columbia)

Past Presidents
- Henry Shaler Williams (1895–1901)
- Samuel Wendell Williston (1901–1904)
- Edward Leamington Nichols (1904–1909)
- Frank Olin Marvin (1909–1910)

CHAPTER REPRESENTATIVES

Term Ending January 1, 1913

Albert DeForest Palmer (Brown)
John Campbell Merriam (California)
Francis Ramaley (Colorado)
Stephen Alfred Forbes (Illinois)
William Kendrick Hatt (Purdue)
Charles Winthrop Crockett (Rensselaer)
Harris Joseph Ryan (Stanford)
Francis Eugene Nipher (Washington University)
Victor Lenher (Wisconsin)
William Herbert Hobbs (Michigan)

Term Ending January 1, 1914

Julius Stieglitz (Chicago)
Chairman of the Council
Charles Sumner Howe (Case)
Thomas Huston Macbride (Iowa)
Edgar Henry Summerfield Bailey (Kansas)
Henry Turner Eddy (Minnesota)
Ellery Williams Davis (Nebraska)
William Alfred Locy (Northwestern)
Edward Orton, Junior (Ohio State)
Arthur Woolsey Ewell (Worcester)

Term Ending January 1, 1915

Carleton Clarence Curtis (Columbia)
Henry Shaler Williams (Cornell)
Carl H Eigenmann (Indiana)
Oscar Milton Stewart (Missouri)
Edgar Fahs Smith (Pennsylvania)
William Henry Metzler (Syracuse)
Olin Henry Landreth (Union)
Henry Landes (Washington State)
John Clayton Tracy (Yale)

THE HISTORY OF THE SOCIETY OF THE SIGMA XI

PART I

FOUNDING OF SIGMA XI

It is scarcely more than half a century since the work of Darwin, Huxley, Pasteur, Virchow, Lister, and a host of able and energetic coworkers forced science upon the attention of the educational world. Men now busily engaged in college teaching were students of Louis Agassiz at Harvard and many more can recall his enthusiastic campaigns for the introduction of actual scientific study into the curriculum of the schools. Many teachers, still young and productive workers, trace their inspiration for biological research to the impulse imparted by Martin at Johns Hopkins. Numberless instances of similar import might be cited from the history of associated fields of scientific activity. The study of science is a thoroughly modern pursuit. In the New World it has not yet surpassed the working period of a single generation.

It is, then, only natural that those movements which have sprung into being as a by-product of the pursuit of science can show only scanty records when tested by the count of years. Phi Beta Kappa was more than one hundred years old before Sigma Xi came into existence. But the latter has now completed a record of twenty-five years and may justly cast up the account in somewhat formal manner, both to preserve the story of these beginnings and to establish the course for future development in the light of the failures and successes of the past. Its source may be traced clearly to the confluence of two streams that, arising, one within the student influence and the other from the teaching circle of a great university, joined at an opportune moment into a current strong enough to cut its way through obstacles and to establish for itself a permanent course. It is appropriate first to chronicle the origin of the movement; then to discuss the evolution of its internal organization; and finally to review its work and the results of its influence so far as they can be ascertained.

To graduate students in geology Professor Henry S. Williams often spoke, as early as 1883 at least, of the need of an honorary society for scientific students similar to Phi Beta Kappa. He discussed this also with colleagues in natural history branches but found one of them so strongly opposed to any organization using Greek letters as its name and others also so antagonistic to recognizing differences in the grade of work prepared by different students that he received scant encouragement for the general plan. As a result he organized in the spring of 1886 a society of geological students to which were elected fourteen members, including some who are now among the most distinguished of present day geologists in this country.

Soon after this Professor Williams, still realizing the need of a society of broader and more general scope, drew up a plan for the

[From First Printed Constitution; no date, apparently published 1887.]

SIGMA XI

Preamble

If stores of dry and learned lore we gain,
We keep them in the memory of the brain:
Names, things, and facts,— whate'er we knowledge call,—
There is the common ledger for them all:
And images on this cold surface traced
Make slight impression, and are soon effaced.
But we've a page, more glowing and more bright,
On which our friendship and our love to write;
That these may never from the soul depart,
We trust them to the memory of the heart.
There is no dimming, no effacement there;
Each new pulsation keeps the record clear;
Warm, golden letters all the tablet fill,
Nor lose their lustre till the heart stands still.

— *Daniel Webster.*

Friendship in Science. While those whose heart and soul is in their work, are coping with the great problems of Nature, let them remember that the ties of friendship cannot be investigated, but only felt. Let them join heart and hand, forming a brotherhood in Science and Engineering; thus promoting and encouraging by those strong, personal attachments of friendship, the highest and the truest advances in the scientific field. To lend aid and encouragement to those newer brothers, who likewise laboring in the same sphere are aspiring to honored positions. And in collegiate halls to award an honor, which to scientific recipients shall signify, "Come up higher."

Therefore, with these ends and objects, the signers of this paper, do hereby agree to lend their efforts to the establishment of an organization to be publicly known as the

SOCIETY OF THE SIGMA XI

Wm. A. Day,
Cornell University, '86.

Wm. H. Riley,
Cornell University, '86.

Frank Van Vleck,
Stevens Institute of Technology '84.

H. E. Smith,
Cornell University, '87.

Wm. A. Mosscrop,
Cornell University, '88.

Chas. B. Wing,
Cornell University, '86.

John Knickerbacker,
Rensselaer Polytechnic Institute, '86.

John J. Berger,
Rensselaer Polytechnic Institute, '86.

Edwin N. Sanderson,
Rensselaer Polytechnic Institute, '86.

Society of Modern Scientists. The preamble of this organization which is in a sense the forerunner of Sigma Xi, closed thus:

"Therefore we believe it is highly desirable to encourage high attainments among the future students of Cornell University and other kindred institutions by recognizing by some mark of honor those who exhibit special ability in investigating, understanding, and interpreting the facts of nature in the various branches of modern science.

"We believe that this end may be attained by an association of such graduates as understand and thoroughly appreciate these principles, in a society to be known to the outside world by some simple and appropriate badge, who shall from time to time add to their numbers from each graduating class such men as they shall deem worthy to unite with them in elevating the tone of scientific study and encouraging and honoring the scientific scholar."

About the same time, namely shortly before the Cornell Commencement in 1886, two engineers, William A. Day, a Cornell senior, and Frank Van Vleck, Stevens Institute, 1884, the youngest member of the Cornell University faculty, planned* the formation of an honorary scientific society. In the fall they drew into the circle seven others, also all engineering students then at Cornell, and began the work of organizing such a society. They selected the name Sigma Xi, published a constitution, and had begun to keep formal records of their proceedings. The aims and ideals of the new organization are well indicated by the preamble of the first printed constitution, which is reproduced here on the opposite page.

It will be noted that this was issued before Professor Williams became connected with the organization and that the intention of making the society "a brotherhood in Science and Engineering" was expressed in words at least. Yet the membership and its activities gave reason for the conclusion expressed by many in contact with it at the time that this was strictly an engineering society.

It was inevitable that the two movements thus independently started should soon come in contact, and when Professor Williams endeavored to interest some of the engineers in his plan he learned of the movement that had been inaugurated and was brought into intimate touch with its founders. Enthusiastically he at once suggested broadening the scope of this organization so as to make it a University society and to include in it all science students worthy of membership. Finding his proposal was favorably received he generously dropped his own movement, feeling that the Sigma Xi would be a better working nucleus since its

*"You may remember Wm. A. Day '86. He and myself were just before the '86 Commencement slowly toiling up the hill from town when he suggested to me the idea of a scientific Phi Beta Kappa. The thought of it at once impressed me, and we then in a way reviewed the field and the methods of organization. Together we went to my room, and before we parted we had the whole plan of organization formulated and a definite plan of campaign outlined. The following Fall we called together the gentlemen whose names now appear on the list of charter members, and with that band pushed out and achieved a success which has almost astonished the original projectors."

(Private letter from F. Van Vleck, dated Los Angeles, 1892.)

formal organization had proceeded further than that of the Society of Modern Scientists. How very early this was in the history of Sigma Xi appears from the original minute book of the Society, which records that at the second formal meeting, not dated, the proposals of Professor Williams were accepted and at the fourth meeting, also undated, he was enrolled as a member.

Among the group of engineers the leader was undoubtedly Frank Van Vleck, a brilliant young instructor in Mechanical Engineering. He was in fact the only one of that group who was not still a student. By force of character and devotion to the idea he aroused an enthusiastic interest in the plan and spent much time and energy in working out the details of the organization. The breadth of view and catholicity of spirit which characterized the group that Van Vleck brought together is thoroughly evidenced by its reception of the idea of a greater society laid before it by Professor Williams. It was this power to grasp a greater idea and to work for its achievement that brought for their organization that success which had been sought but not found by earlier enterprises. As the first brief history of Sigma Xi says:

"The movement looking toward the organization of a scientific honorary society in colleges is not new. At various times it has been proposed and in one or two institutions societies have been formed. One of the proposals emanated from Rochester University, and it is believed that a chapter was formed there. With the idea of obtaining the cooperation of scientific colleges generally, correspondence was opened with the heads of the principal scientific institutions. It appeared that all were in the main favorable to the idea, but yet active efforts never seem to have been put forth to establish any of these proposed and possible chapters. Then later, the proposing body at Rochester seems to have disappeared altogether."

At the fifth meeting, undated but probably in the early winter of 1887, the Union Chapter was formally admitted and a committee of two, Professor Williams and Mr. Berger, was appointed to consider the establishment of a chapter at Yale. Professor Williams was also the first president elected by the Cornell chapter on May 20, 1887. Other facts tend to show distinctly that he was called into a position of leadership in the new organization. Of course, in that he remained on the ground, he enjoyed a great advantage over others of the founders, since he was able to foster and guide the movement in its formative period of growth. In fact Professor Williams was considered as one of the founders of the Society and is listed as such in the second publication it issued, where his name is signed to the same preamble and statement of aims that appears in the earliest edition already mentioned.

Professor Williams became at once the prophet of the new movement and gave voice to its spirit in his inaugural address. This was reprinted as a pamphlet entitled "The Ideal Modern Scholarship," and designated as the presidential address delivered at the inauguration of the Alpha Chapter of the Sigma Xi Society, Cornell University, Ithaca, New York, June 15, 1887. It must have been a critical moment for

the young organization, and a commonplace statement of its ideals would have resulted in its being assigned a place beside the numerous other organizations in university life that come into notice and as soon pass out, or persist if at all in uninfluential mediocrity. But this was a challenge, bold, dignified, quiet, and unanswerable. It appealed powerfully both to mind and heart; it was the call to arms. This document is so fundamental to the history of Sigma Xi that it is impossible to refrain from quoting briefly some of its most striking passages.

"We meet to-day to inaugurate a new ideal of scholarship; * * * a new ideal, not a scholarship: for we have many scholars of this modern sort to whom we may look up as our models, but to lift this modern scholarship to a place of first rank; to make it the ideal for ambitious students; to make the attainment of it an honor to be coveted beyond others; this has not before been attempted in the history of American universities.

"The old ideal, before the mind of the literary scholar, contemplates such a training of the intellect and such an acquirement of learning as shall fit the scholar to grasp quickly, accurately, and thoroughly knowledge bound up in the literature of the world, together with the power to communicate it readily, vividly, and forcefully to his fellows. This is the ideal which most students aspire after * * * and it is reasonable to ask why should anyone propose another? * * * We propose a new ideal because we * * * would follow the spirit of that scholarship, the letter of whose law binds and excludes us. * * *

"I cannot do better than express * * what we conceive to be the essence of the scholarship which it is the purpose of our society to recognize. * *

"The first element in scholarship is learning. The real scholar sets before himself * * to know everything of something and something of everything. But the something, as well as the everything, changes * * The learning which yesterday made the scholar is ignorance to-day. The spirit of scholarship, then, demands * * modern learning. The old scholarship taught us to reverence the knowledge recorded in books; * * in the course of time, thus, authority came to be respected more than accuracy and imitation of the ancients received higher honor than adaptation to modern conditions. The modern scholar seeks knowledge as a means toward the vigorous expression of his manhood, a knowledge * * of those seething elements in the midst of which he lives, and of which he is one. * *

"The second element essential to the scholar is power of communication with his fellows. * * He must have acquired a thorough familiarity with his own language as a vehicle of thought, but besides this he must be able to use German and French; with these he can reach the civilized world.

"Thirdly, he must be a specialist. In his specialty he must think for himself, plan for himself, act for himself. Here he must rest on no one, but be himself a support for others. He must be a constant student, constantly advancing, and, making stepping stones of his dead self, rise to higher things.

"Such are a few of the elements of that scholarship which it is the

purpose of our society to recognize, foster, and develop. * * In lighting your torches we bid you light them at the brightest living altars of learning, and not at the smouldering coals of dead issues. * *

"He who only imitates the past forgets the demands of the present, * * but he who adapts himself best to modern issues, who serves best the present age, has been, will always be the successful man."

At the fifth meeting the Society thus reorganized made its first elections to membership, choosing four members of the Cornell faculty, viz., Professor R. H. Thurston, J. H. Comstock, W. R. Dudley, and C. D. Marx, together with five graduate students, Messrs. C. S. Prosser, E. H. Preswick, A. W. Smith, F. W. Simonds, and H. E. Summers.

The sixth meeting, which was the first to be dated and was held May 20, 1887, was presided over by Mr. Van Vleck, who seems to have been chairman of the Society up to that time. The final establishment of chapters at Union and Rensselaer was reported and as the first set of officers were elected the following: President, H. S. Williams; Vice-President, F. Van Vleck; Recording Secretary, C. D. Marx; Corresponding Secretary, C. B. Wing; Treasurer, A. W. Smith.

It is said that from the first the founders expected that women would be admitted when the Society should become firmly established, yet it was not until the end of 1888, that any were actually elected. At the previous meeting, which was the thirteenth of the Alpha Chapter, a motion was passed instructing a committee "to look over the list of graduates and present at the next meeting for the election of members the names of such persons as they deem desirable."

This committee reported at the fourteenth meeting on December 5, 1888, thirty-nine graduates among whom were the following five women: Mrs. Anna Botsford Comstock, '76; Mrs. Susanna Phelps Gage, '80; Mrs. Harriet Grotecloss Marx, '84; Miss Julia Warner Snow, '88, and Miss Mary Margaretta Wardwell, '88. The first woman chosen from among the undergraduates was Miss Elizabeth Harwood Boynton, a senior, now Mrs. F. V. Coville, elected at the meeting of May 13, 1889. The movement thus started does not seem to have met with unanimous approval since at the first general convention, May 17, 1893, one chapter proposed an amendment declaring women ineligible to membership in Sigma Xi. This proposal met with little favor and since then no one has questioned the policy of Sigma Xi in offering membership on equal terms to men and women.

GROWTH OF THE SOCIETY AND FORMATION OF CHAPTERS

When in 1893 the Society held its first general convention, it enrolled only four chapters. The results of six years' work appeared very meager. The Society had been conspicuously started upon its public history and the outlook in 1887 was commented upon in most sanguine terms by the Cornell student paper. It had found a leader, it had set up an ideal and that ideal had been approved. Inquiries had come from other institutions regarding the new movement. Permits for the establishment of six other chapters had been sent out from the Alpha Chapter and tentative plans had been laid for the organization of still other chapters. All this had come to pass within a single year. But here the movement seemed to pause.

Two years more passed by and the situation was unchanged. The enthusiastic and vigorous opening of the campaign had not been followed by a corresponding extension of the Society's influence. Indeed it seemed as if the movement had suffered a distinct setback. Two of the chapters which had been established went out of existence almost immediately and others to which chapter letters had been assigned never even completed their formal organization. The Society was restricted to a single state and embraced only one institution of such numerical strength that it could exercise any considerable outside influence, while other institutions of similar numbers and rank had refused to become associated with the undertaking. It looked as if the time were not ripe for such a movement, and even the leaders wondered if the new ideals were really to find a place in the educational system.

In 1889 Kansas was voted a charter. This was a start in a new field, but even after that step was taken it led to no further development for several years. The first general convention in 1893 found the Society of the Sigma Xi still consisting of three chapters in New York State and one in the west. This convention organized a standing committee on extension and spent much time in discussing the policy of the Society. The next two years were characterized by great activity, but it was almost purely internal. When the second convention assembled in 1895 the chapter roll had been increased only by the addition of a single new name, that of Yale, admitted in March of that year. The correspondence of these two years still preserved in the archives of the Society shows that inquiries concerning the aims of Sigma Xi and petitions for the establishment of new chapters had come in numbers. The idea was spreading and new centers wished to join in its propagation. But the leaders in the organization were alive to the dangers of the situation and aware of the ease with which a false move might be made. As one of them wrote: "I would like to see new chapters added, but after our experience * * I am in favor of moving slowly. Our policy should be in the direction of first establishing chapters in the best institutions where they will receive the active support of men who are of recognized standing."

In 1894 an attempt was made to organize in the Sheffield Scientific School at Yale a society to promote a high standard of scientific work. Professor Williams, who was then on the Yale faculty, heard of the movement and called the attention of the movers to the similar organization already firmly established at Cornell. At that time he found five Yale men on the roll of the Sigma Xi: Anthony, Bedell, Crehore, Eddy, and himself. On discussing the matter with the students and faculty, Professor Williams soon discovered that the desire to secure recognition for members of the Scientific School from Phi Beta Kappa had long been prominently on their minds; and appreciating that under these conditions their interest and support would be at best divided, he advised that Sigma Xi discourage any advances at that time. The class of 1894 was unable to agree on any plan of action and the matter was left undecided.

The correspondence of this period shows that the chapters of Sigma Xi were favorable to the establishment of a chapter at Yale, but only

provided that the support of the best men there could be secured so as to insure the success of the movement. The matter lay dormant for a year and was reopened by the publication in February, 1895, of an editorial in the Yale Scientific Monthly entitled, A High Stand Society in Sheff, from which the following may be quoted:

"For a number of years there has been a growing recognition of the need of a high stand society in the Scientific School. So strong was this feeling last year that a serious effort was made by '94 S. to organize one, but they were unable to carry their plans into execution before graduation. An indifference to high scholarship is far too prevalent, and any society which by high standards of admission and by development of its members should encourage a better standard of work would be an invaluable force in the Scientific School. * * *

"It would, therefore, appear that the best results would be obtained through a society formed somewhat on the same lines as Phi Beta Kappa, but with a distinctly scientific basis, whose object should be the promotion of original investigation. In organizing such an association it would be well to look around somewhat. There is a society, Sigma Xi, of just this nature existing in Cornell, Stevens, and other scientific schools, which was founded in 1886 by a Sheffield graduate, Prof. H. S. Williams, '68, now professor of geology at Yale, and which deserves careful consideration. * * *

"The principles on which Sigma Xi is founded seem to us to be sound and have succeeded where they have been put in operation. It would be well for us to profit by their experience if such a society should be organized at Yale. Whether it is best that this should be local is open to argument. Sigma Xi is sure to succeed and to grow. If it does, the same reasons which make Phi Beta Kappa valuable: its fame, its high standard, and general acceptance, will be increasingly applicable to the Scientific Society as well, and would year by year make it more valuable than a local organization. If, as we understand, they will meet us half way, would it not be well to inquire into the advisability and possibility of establishing it in Yale?"

This editorial led in a few weeks to the organization of a society and to a petition for a charter from Sigma Xi. Notice of granting the charter is contained in a letter from President C. C. Brown, dated March 8; this charter was received and formally accepted at a meeting of the charter members held in New Haven, March 16, when temporary officers were elected. On March 29 Professor Frederick Bedell of Cornell formally inaugurated the Yale chapter, and soon after wrote to President Brown: "I was much pleased with the start the Society has at New Haven, and it is more than likely that our youngest chapter will soon be one of the strongest."

Thus it was that eight years after the importance of the move had impressed itself on the original group of Sigma Xi members a chapter came into existence at Yale. It was, however, far stronger in having originated in response to an internal demand for such an organization rather than as a result of any outside influence such as that recorded in the early minutes of the Alpha Chapter of Sigma Xi. Yale was committed to Sigma Xi on her own initiative.

The establishment of the Yale chapter was a most significant factor in the history of Sigma Xi. Not only that it added to the chapter roll a new name, but also and even more, that the new chapter was located in one of the oldest, strongest, and most influential of American institutions. Moreover, its faculty was rich in men justly ranked among leaders in scientific research; its scientific laboratories, museums, and publications were widely and favorably known, and its entrance into Sigma Xi laid at once an additional and evident emphasis on original research. The Cornell chapter had now a worthy rival in the contest for scientific leadership. Moreover the Yale chapter had its own opinions and did not hesitate to express them. For instance, one of its officers writes within two weeks in regard to a chapter letter: "We will adopt Y and if anyone wishes to give it a Greek significance he can call it Upsilon; but we shall call the chapter the Yale chapter." That same spring also it prepared certain amendments to the Constitution which were presented to the convention at Springfield in August. At that convention finally the Yale representative on the committee on extension, Professor Williams, though newly appointed, formulated and presented the report of that committee, which has since been printed with the Constitution, and has been powerfully influential in shaping the development of Sigma Xi.

Yale took at once, and has held ever since, a prominent position in directing the policy of extension towards which Sigma Xi was then looking. But this influence was exerted with constant consideration for the attitude of the parent chapter at Cornell, which up to that time had borne the brunt of the fight. This cordial relation is shown clearly in the position of Yale with reference to the next great question which came up in the Society. Kansas had been granted a charter in 1889 and others of the vigorous and rapidly growing state universities of the central west had been quick to ask the value of the organization, and finding its ideals peculiarly well adapted to the demands of their environment were petitioning for charters. Yale men, like Eddy at Minnesota, were leaders in these movements and Yale influence had always been prominent in western colleges. No doubt then the Yale chapter was inclined to favor such applications, and yet one of the Yale leaders writes to one of the Cornell officers in 1896 as follows: "At Buffalo * * western men were strongly of the opinion that * * and several others of the state universities should have chapters. * * Now it seems to me that it rests much with the Cornell chapter as to whether we shall adopt one or the other policy. * * If you at Ithaca after hearing [the arguments] and considering what the effect upon the Society will likely be, if you think the time is ripe for so extending the Society and practically yourselves losing control of its policy and guidance, which you have always held from the beginning, I am ready to accept the decision and take part in the advance."

Those who had opposed expansion were now lining up in its favor. After the Yale chapter was organized, one prominent member of Sigma Xi who had voted against other petitions wrote in 1895, "I am inclined now to the opinion that some of the better western institutions should be recognized." This was a year before the inquiry quoted above

was made concerning the opinion of the Cornell chapter. What views the Alpha chapter held may be inferred from the fact that its officers appear as leaders in urging the granting of charters given in 1896 to Minnesota, in 1897 to Nebraska, and in 1898 to Ohio. Meantime the convention of 1897 at Toronto had spoken strongly in favor of extension which had been made the theme of the presidential address of that convention, delivered by Professor Williams. The current was setting strongly towards the west, and he himself favored the general policy of extension; nevertheless he wrote in that year to Cornell voicing once more the same consideration for the parent chapter:

"We are not yet fully out of the woods; there are still important problems to come up regarding the policy of the Society and I had hoped we might keep the active nucleus at Cornell. The advantage of having several members in one place is that every matter may be discussed thoroughly." But Cornell was actively committed to the policy of extending the influence of the Society as widely as possible, and no doubt also felt convinced that the welfare of the organization might safely be entrusted to the hands of the state universities with which she was in closest touch and with whose ideals she was thoroughly familiar.

The western movement halted for the moment, as Pennsylvania in 1899 and Brown in 1900 were the next to be granted charters. The same year also saw Iowa admitted; so that the close of the fifteenth year of Sigma Xi history found the organization with eleven chapters, as against only five chapters at the end of the tenth year. The growth of the Society was even more vigorous in the next succeeding period. After Stanford in 1901, California and Columbia followed in 1902; Chicago, Michigan, and Illinois were admitted in 1903; Case and Indiana in 1904, and Missouri and Colorado in 1905. Twenty years had resulted in the organization of twenty-one chapters. Northwestern and Syracuse were added in 1906. Wisconsin and Washington State in 1907, Worcester in 1908, and Purdue in 1909; finally Washington University in 1910 made the total of twenty-eight active chapters in the first quarter century of Sigma Xi history.

Of the institutions represented on the chapter roll thirteen are state universities and one, Purdue, a state technical school, while two others, Cornell and Pennsylvania, have somewhat analogous positions in eastern states. The latter are included usually, however, in the endowed institutions of university rank, in which Sigma Xi has eleven chapters. In addition there are three endowed technical schools having Sigma Xi chapters.

Geographically considered, the Society is represented by chapters in seven endowed universities and two endowed technical schools in the eastern states, by a chapter in every north central state university and in two endowed universities and two technical schools in the north central region, while two state universities and one endowed institution on the Pacific coast are represented. There are in all nine chapters in the east and nineteen west of the Alleghenies, of which three are on the shores of the Pacific. Thus far no chapters have been organized in southern institutions, but the increasing interest in re-

search throughout the south is indicative of the approaching participation of that region also in the movement.

Within the past two or three years some conservatism has been manifested in granting charters to new institutions, since it has been generally felt that the precise method of determining qualifications for election to membership needed recasting in order that different chapters might secure reasonably uniform results. In case a basis can be determined which will be as readily applied in an institution with a limited number of scientific workers and only occasional students who are qualified for membership, as in a large university or technical school affording opportunities for selection among the many students of each annual group, then sentiment seems to favor the organization of chapters in a much larger number of institutions than are yet represented. The problem is now under discussion.

The Society is so young that only one chapter has had occasion to mark the passing of years in any formal manner. On July 2, 1906, the Alpha Chapter celebrated the twentieth anniversary of the founding of that chapter and of the Society. The occasion coincided with the summer meeting of the American Association for the Advancement of Science at Ithaca. The other chapters sent official greetings and many of them appointed official delegates to convey their congratulations to the parent chapter on this occasion. The program included a public address by Dr. J. C. Branner of Stanford University, on the California Earthquake, and a dinner tendered visiting members and delegates by the Cornell Chapter.

PART II

INTERNAL ORGANIZATION

The original constitution, adopted by the founders of the Society and carefully observed by the parent organization, the Cornell chapter, provided that "a convention of the Society consisting of delegates from each chapter shall be held each year, or oftener, if appointed by the President." It also made provision for officers of the Society to be elected at the annual convention, as well as for chapter officers chosen in accordance with chapter by-laws, and stated specifically the powers and duties of these officers in a section apart from that dealing with chapter officers. In a series of sections, this document prescribed with some definiteness the manner of selecting delegates, the proper form for credentials and also an extended and definite order of business for the convention. Furthermore, one article of this original constitution was devoted to providing the means by which new chapters might be established. Thus, although it was in appearance the organic law of a single chapter only and is quoted as such in the minutes of the first convention,* this document was in fact far broader and more

*V. A. Moore, in his president's address to the Cornell Chapter, in June, 1903, expresses the same idea, when he says of the first convention, "The essential work of this meeting was the adoption of the constitution previously prepared by the Alpha Chapter."

[Announcement of the First]

CONVENTION

OF THE

Society of the Sigma Xi

HELD WITH THE

Alpha Chapter, Cornell University
May 17 and 18, 1893

Program

WEDNESDAY, MAY SEVENTEENTH

The convention will assemble for business session at 2:30 p. m. in the Architectural Lecture Room, Lincoln Hall.

THURSDAY, MAY EIGHTEENTH

FORENOON

Second Business Session.

AFTERNOON

Third Business Session.

EVENING

Public meeting in Chemical Lecture Room, at eight o'clock. Address by E. L. Nichols, President, upon

"PHOTOGRAPHY AS AN INSTRUMENT OF RESEARCH"

At the close of the address the delegates and the members of the local chapter will be tendered a reception at the house of Professor Nichols, where the initiation of newly elected members will also take place.

significant than the constitution of any one chapter could have been. All of the facts show unmistakably that the founders of Sigma Xi had in mind a comprehensive general organization and endeavored to meet the needs of such a body.

In spite of these provisions for general meetings, the Society existed for several years merely as a group of separate chapters without rules for action or formal methods of procedure actually used for the general society. The need of a closer organization soon became apparent and at the nineteenth meeting of the Cornell Chapter, March 3, 1890, it is recorded that the matter of calling a convention was referred to the officers of the chapter with power to act. At the next meeting, April 20, the minutes record that favorable replies were reported from the chapters at Union and the Rensselaer Polytechnic, so that the committee was instructed to call a convention at Ithaca on May 16 and 17, 1890, and delegates were elected to represent the chapter. Owing to the impossibility of securing a quorum,† since no replies could be obtained from the chapters at Rutgers and Stevens Institute, it was subsequently decided to hold a conference of the three existing chapters.

The minutes make no mention of the outcome of these plans and the next formal reference to the problems of a general organization for the Society occurs a year and a half later. On November 14, 1892, action was taken by the Cornell Chapter looking towards revoking the charters of the two defunct chapters; and after the chapter roll had been corrected a formal call for a convention in May, 1893, was sent out in the name of the Cornell Chapter. The officers for the first convention were those of the parent chapter, in part at least, as shown in the written record of that meeting; but no records exist in the minutes of the Cornell Chapter, or in the Record Book of the general Society, to show except by inference the correction of the chapter roll, the sending of a formal call for the convention, or the organization of the convention. Undoubtedly the details were arranged by the Cornell Chapter, for it printed and distributed the program, a copy of which is reproduced on the opposite page. It also entertained the delegates at its thirty-third meeting, according to the chapter's records which are identical with the part of the Convention records. On this occasion Professor E. L. Nichols gave a public lecture after which the chapter held a reception in honor of the delegates to the Convention. Here terminates the record in the chapter minutes, but the delegates must have been inspired with enthusiastic devotion to the work of the occasion, for they attacked the problem of discussing

†This phrase, taken from the old records, shows distinctly that the Society at that time considered itself obligated by the provisions of the original constitution which specified for a quorum delegates from three-fourths of the active chapters. It also indicates marked consideration for the two chapters, which, so far as can be ascertained, never held but a single meeting each, and might have been eliminated from consideration under the terms of the constitution without any formal action. At the same time, since there were only three chapters in existence, it is apparent that a legal majority of the membership would have required the presence of delegates from every chapter at all times before the granting of the charter to Kansas on December 4, 1889.

and modifying, item by item, the old constitution presented by the Cornell Chapter, and succeeded in working into shape a considerable portion of the new law before adjournment was reached.

While the action noted in 1890 was the only attempt on record prior to the first formal convention of 1893 to assemble the chapters for general action, unwritten history tells of several other futile efforts to secure such a meeting, all of which resulted inevitably in "no quorum present," since two of the five original chapters had an existence on paper only. Once that the difficulties were solved, a convention actually held and a revised constitution adopted, the machinery of the general Society has operated regularly and with very little complication. A series of eight biennial conventions was held from 1893 to 1906, then a special convention in 1907, followed by annual conventions from 1908 to date. After the first convention, which was independent of any other meeting, all these gatherings have been held in conjunction with the annual meeting of the American Association for the Advancement of Science. The naturalness of this affiliation was so apparent that when the Association changed its customs and replaced the midsummer meeting by one in the holiday period, Sigma Xi followed the change and since then has met regularly in Convocation Week, and at the place chosen for the meeting of the Association. These gatherings have been unusually successful in bringing together scientific workers whose technical interests are so varied that they could hardly hope to come in contact in any other way. The Sigma Xi dinner has been a regular feature of the gathering ever since it was so successfully inaugurated at St. Louis. The address delivered then by David Starr Jordan is one of the most accessible and best known of all articles on the aims and ideals of Sigma Xi. Subsequent dinners have assumed a less formal character, but, in spite of the pressure of other engagements during the limited period actually available in Convocation Week, the social part of the Sigma Xi Convention has been greeted each year with increasing interest and pleasure. The younger men welcome gladly this opportunity to meet on an informal, fraternal basis those who have won a place in science, and the varied representation on this occasion from year to year is the means of developing a growing interest in the achievements of the Society among many who would otherwise know little or nothing regarding its work and the results thereof.

While the social side of recent conventions has been successfully developed, some criticism has been passed on the unsatisfactory character of the business meetings. The great variety of scientific programs during Convocation Week and the multiplicity of demands from special organizations render it impossible to select a time for the business session which does not conflict with numerous other attractions and duties. Delegates entrusted by their respective chapters with important responsibilities for Sigma Xi are kept away from its meeting despite their best endeavors, and after a prolonged discussion a call of the house has more than once disclosed no quorum present. The resulting confusion, loss of time and effort, and uncertainty as to the outcome, have given rise to a demand, apparently growing in strength, that the business meetings of Sigma Xi should be held distinct from those of

other organizations. In this event they might be less frequent and yet provide adequately for the business needs of the organization. The Minnesota Chapter has this year presented amendments to the Constitution of the Society calculated to introduce separate conventions and to make them biennial rather than annual. While this move is clearly justified by the experience of recent years, may it not be equally wise to retain the annual social gathering in Convocation Week which has done such good service in bringing members in touch with each other? The wide geographic and scientific range of chapters and membership demands centripetal influences strong enough to hold together the separate elements. The cohesive power of personal contact is too valuable to be lightly dispensed with. Its value to the Society is great and its inspiration to the individual member still greater.

GENERAL CONVENTIONS

The first convention of the Sigma Xi Society was held at Cornell University, being called to order on May 17, 1893, by the Vice-President of the Cornell Chapter, L. M. Dennis, who presided during the first day; whereas the President, E. L. Nichols, presided over the sessions of May 18. The group of delegates was not large; three chapters, viz., Alpha (Cornell), Theta (Union), and Iota (Kansas), were represented by delegates as given in the appended list.* The Zeta (Rensselaer Polytechnic Institute) Chapter was not represented in person, although the minutes indicate that it presented certain amendments to the proposed constitution. The records, still existing in the Record Book of the Society, are signed by J. H. Tanner, Secretary. The Convention held four sessions during two days and after receiving reports from various chapters proceeded to discuss and adopt with some minor amendments "the Constitution prepared† by the Cornell Chapter." The new Constitution was ordered printed, and the Treasurer

*FIRST CONVENTION

Officers

President—Edward Leamington Nichols (Cornell)
Vice-President—Louis Munroe Dennis (Cornell)
Secretary—John Henry Tanner (Cornell)

Delegates

Francis Cary Caldwell (Cornell)
Charles Francis Osborne (Cornell)
James McMahon (Cornell)
Charles Caroll Brown (Union)
James Hough Stoller (Union)
John Henry Comstock (Kansas)
Ernest George Merritt (Kansas)

Committee on Extension

Charles Francis Osborne (Cornell), Chairman
James McMahon (Cornell)
Edgar Henry Summerfield Bailey (Kansas)
James Hough Stoller (Union)
Palmer Chamberlain Ricketts (Rensselaer)

†As already noted, this was in reality the constitution prepared by the founders of Sigma Xi for the entire society. It had been in keeping of the parent chapter, and had been carefully observed in all matters that pertained both to general interests, and to chapter responsibilities. So far as the convention records show, it came up in its original unaltered form, and the action of the delegates was really a revision of the organic law of the Sigma Xi rather than the adoption of a constitution, even though the latter construction is placed on it in the written records.

was authorized to procure an official seal and monogram for the Society. After much discussion regarding the policy of the organization a standing committee on new chapters was appointed; this was subsequently known as the Committee on Extension. The Convention voted down an amendment declaring that women are ineligible to membership. At the close Professor C. C. Brown (Union) was elected President for two years, Professor James McMahon (Cornell) Corresponding Secretary for four years and Professor J. H. Comstock (Cornell) Treasurer for two years. The record contains no mention of the selection of the other officers, vice-president and recording secretary, which are enumerated in the Constitution.

The second biennial convention of the Society of the Sigma Xi was held at Springfield, Massachusetts, August 28 and 29, 1895, under the presidency of Professor C. C. Brown (Union). Its membership is shown in the appended list.* The President, in his report, gave a detailed statement of the founding of the Yale Chapter in March, 1895, and of correspondence regarding new chapters. He also reported his appointment of Professor H. S. Williams as the Yale representative on the Committee on Extension, which was created by the last Convention. In the absence of the chairman of that committee, Professor Williams stated the views of the committee regarding the policy of the Society in founding new chapters. These remarks and the resolutions subsequently adopted by this convention were printed and distributed for the information of the Council and chapters. Both the remarks and the resolutions have in later years been incorporated into the Constitution, and are printed with it regularly as Appendix I (see page 52). They have thus come to be regarded as a distinct part of the organic law governing the organization.

The importance of this action can hardly be overestimated. For the success of the movement to extend the influence of Sigma Xi, which was just taking shape, it was essential to have a policy as firm as it was broad, both definite and unassailable. To leave the decision in granting new charters to the chance of circumstances was to open the door to all sorts of variation and to individual interpretation of unexpressed ideals and undefined standards, even where personal bias was rigidly excluded. Just at this moment Sigma Xi found its interpreter in the person of one of the founders, whose individual achieve-

*SECOND CONVENTION

Officers

President—Charles Caroll Brown (Union)
Vice-President—Frank Olin Marvin (Kansas)
Secretary—James McMahon (Cornell)

Delegates

Henry Shaler Williams (Yale)
James Hough Stoller (Union)
Olin Henry Landreth (Union)
Frank Olin Marvin (Kansas)
Henry Byron Newson (Kansas)
James McMahon (Cornell)
Ernest George Merritt (Cornell)
James McGiffert, Jr. (Rensselaer)

The Committee on Extension had been increased by the addition of Henry Shaler Williams (Yale), appointed April 3, 1895, on the organization of the Yale Chapter; otherwise its membership remained as constituted at the close of the first convention and recorded on the previous page.

ment in the field of research was of the highest type. His expression of the aims of the Society and his statement of the standards that should be observed in the admission of new chapters commanded immediate support, and have been unreservedly accepted and recognized by Sigma Xi since then.

Certain other amendments to the Constitution were adopted; these concerned the method of procedure in applying for and in establishing a new chapter, including the form of the charter.

The most important change in the organization of the Society was unquestionably the establishment of the Council. By constitutional amendment the Committee on Extension was given a permanent existence, under the name of the Council, and its powers were made definite. The officers of the Society became *ex-officio* members, and provision was made for an additional representative elected by each chapter; the elective members were to hold office for five years, and one of them was to be named as chairman by the president. The chief duty of the Council was to advise on the granting of charters; no charter was to be granted without the consent of three-fourths of the Council, as well as of three-fourths of the chapters. (See Art. II of the Constitution as amended in 1895.)

The Corresponding Secretary was instructed to print the amended constitution, together with a revised list of members, and to have a suitable letter-head devised and engraved. After tendering a hearty vote of thanks to the retiring President for his untiring efforts in behalf of the Society, the Convention adjourned *sine die.*

The third biennial Convention of the Society was held at the University of Toronto, August 20, 1897. The most important question handled by the meeting was the problem of extension. President Williams, in his address, dwelt upon the ideals of the Society and the history of the Yale chapter, and expressed the opinion that Sigma Xi, if rightly guided, would take a place of leadership in the movement under way to place science on an equal footing with literature, as a factor in the highest liberal education (See Constitution, Appendix II, page 53). The Constitution was amended so as to abolish the veto power of three negative ballots in the election of new members, since this power had been abused by irresponsible persons. Reports from the various chapters were given by delegates present. It was voted that the ordinary geographic name of the chapter might be used when desired instead of the Greek letter (See Constitution, Appendix III, page 54). The Council was ordered to prepare in printed form a summary of the remarks on extension for the information of the various chapters. The Secretary was requested to distribute typewritten copies of the minutes to the different chapters. These two actions were subsequently combined in the form of a pamphlet including the full proceedings of the Convention. Since then the convention proceedings have all been issued in printed form. It was unanimously voted that the selection of the time and place for the meeting of the next Convention be referred to the five officers with power, but that "this Convention is of the opinion that it is desirable that the Convention should be held at the same time and place with the meeting of the American Association for the Advancement of Science."

The fourth biennial Convention was held at Columbus, Ohio, on August 22 and 23, 1899. Various amendments to the Constitution were made with a view to providing for the selection of new members more definitely in accordance with the general purpose of the Society, and chapters were recommended to employ the method of selection by means of a Board of Electors. The Convention fixed upon Tuesday evening of Convocation Week as the regular meeting time for future Conventions, and the place of the meeting of the American Association for the Advancement of Science as its meeting place. It also decided to plan for a reunion of the Society at the next meeting of the Association, thus bridging over the interval between the biennial conventions. Lists of officers and statistics from chapters, which were read before the meeting, were for the first time included in the published record of the Convention.

The fifth biennial Convention was held in Denver, Colorado, on August 28, 1901, Vice-president Samuel W. Williston presiding in the enforced absence of the President. The problem of choosing members was a prominent subject in the discussion, and numerous suggestions on this question are contained in the reports of chapters, and in the discussions of the Convention. The question of modifying the form of the badge was broached, and after full discussion the Council was requested to invite suggestions from chapters and individual members, and to report to the next Convention.

The Convention recorded a vote of thanks to the retiring President, Professor H. S. Williams, "in recognition of fifteen years of wise counsel and guidance since the Society's birth and six years of devoted and exemplary administration of the Presidential office." The retiring address of the President was made a part of the records of the Convention. The statistics regarding chapters added to the convention records are in this case accompanied by lists of scientific papers read at recent chapter meetings.

The sixth Convention was held December 30, 1902, at Washington, D. C., the change in time being associated with a similar change in the program of the American Association for the Advancement of Science. Much attention was again devoted to the question of the election of members and the groups of students eligible to membership, and these points were emphasized in the address of the President, Professor S. W. Williston, which was printed in full in the Convention proceedings. A part of this address has since then been printed as Appendix VI of the Constitution (see page 54). The meeting provided for a social session as well as a business meeting at the next Convention.

The seventh Convention was held December 29, 1904, at the University of Pennsylvania, President S. W. Williston in the chair. The President, in his address, emphasized the responsibilities which were laid upon the organization and also the need of more frequent and perfect communication between chapters and members. The report of the committee recommending a change in the form of the badge was favorably acted upon and steps taken to modify the method of admitting new chapters, and to make conventions of the Society annual.

The eighth biennial Convention was held at Columbia University, New York City, December 31, 1906, under the presidency of Professor E. L. Nichols. The preparation of a membership record for the entire Society was broached and an appropriation made to collect data therefor. The question of the badge was discussed at length, and the action of the Council in the selecting of a uniform official badge for future members was endorsed.

A special Convention of the Society was held at the University of Chicago, January 3, 1908, under the presidency of Professor E. L. Nichols. The Convention adopted constitutional amendments specifying the form and use of the badge, and the method of presenting a petition for the establishment of a new chapter. A report by the Cornell Chapter, which is printed in full in the Convention Proceedings, submitted for discussion the question of junior or associate members. The President's address and the report of the Corresponding Secretary are printed in the Proceedings, but statistical data regarding chapters are omitted.

The tenth Convention of the Society was held at Johns Hopkins University, January 2, 1909, President E. L. Nichols in the chair. The President in his report discussed the difficulty of arranging a time for the Convention so as to avoid conflicts with other organizations when the meeting was held in connection with Convocation Week. He reported on the progress of the Society and the establishment of new chapters. He spoke also of the desirability of forming chapters in centers of scientific activity, such as Washington, D. C., where no institution of learning offers conditions conforming with those laid down by the Society for the organization of an active chapter. The Convention authorized the preparation of a Sigma Xi catalog and the canvas of the chapters to determine the advisability of publishing the same. Amendments to the Constitution were formulated covering the voting of new chapters.

The eleventh Convention was held at the Massachusetts Institute of Technology, December 29, 1909. The address of the President, Professor F. O. Marvin, called attention prominently to the fact that the general scheme of conducting the business of the organization was not adequate for the Society with its large and widely scattered present membership and recommended more centralization of authority. Recommendations for change in the Constitution, made by various chapters in the form of a series of proposed amendments, which were printed as appendices to the Proceedings of the Convention, were referred to a Committee of Seven, with instructions to print and distribute in advance the results of their deliberations in order that action might be taken at the next Convention.

The twelfth Convention of the Society was held at the University of Minnesota, on December 30, 1910. The address of the President, Dean F. O. Marvin, discussed primarily the tremendous increase in the membership of the Society and in the geographic range of its chapters, and emphasized the seriousness of the problems which had arisen in connection with this growth. The President recommended that greater authority should be conferred upon the Council, and that conventions

should be held only periodically instead of annually and should be distinct from the meetings of other organizations. The report of the Committee of Seven was, after discussion, referred to the Chapters for further suggestion and to the Committee for revision preparatory to final consideration at the next Convention.

The Corresponding Secretary was authorized to undertake the preparation and publication, at the expense of the Society, of a Quarter Century Record under the direction of the Executive Committee. Amendments to the Constitution regarding the granting of charters were acted upon. The constitutional amendments pending were printed as an appendix to the Proceedings of the Convention.

The thirteenth Convention was held at Washington, D. C., December 28, 1911. The President, Dean Henry T. Eddy, in his address dealt primarily with the position taken with reference to the granting of new charters and the principles which had actuated the Council in its attitude towards recent petitions for charters. The President recommended that the Society hold its Conventions apart from the meetings of other organizations, that the necessary expenses of one delegate from each chapter be paid from the general treasury of the Society, and that the Council be granted much greater powers in the transaction of business. The report of the Corresponding Secretary on the Quarter Century Record and History was approved and the contract for printing the same awarded. The report of the Committee of Seven was carefully discussed and the Convention voted not to add new classes of active members, but agreed to the constitutional amendments providing for non-resident membership and for greater powers of the Council. An important step was taken when the Convention instructed the Council in considering the admission of new chapters to insure that at any petitioning institution there shall be a satisfactory and continuous output of research work. This provision is now printed with the Constitution. (App. VII, page 55.)

THE SELECTION OF MEMBERS

The methods followed in selecting members have been greatly modified in the course of the twenty-five years which have elapsed since the first candidates were chosen. Yet the change is hardly more than a natural modification due to the growth of the Society and the increase in the number of students pursuing scientific branches and hence subject to consideration. In the large universities of the present whose single department often exceeds in enrollment the entire student population of the institutions where Sigma Xi began its history, the individual consideration given in earlier years is impossible. The earlier plan did more than merely select those whose work justified the honor of election to Sigma Xi; it served to develop and clarify in the minds of the members themselves the precise ideals which Sigma Xi was endeavoring to inculcate. This plan is described as follows, by one of the early Cornell members.

"At first it was deemed necessary to discuss every candidate in the whole society. The members who recommended one must be there to give his record and make personal defense of his eligibility, and three

black-balls were sufficient to exclude him. But as the Society grew larger, this method of selection proved unfair and unsatisfactory, especially since the power of the three black-balls came near ruining the Society. There seemed to be prejudice and conspiracy year after year to keep out men from certain departments. This finally brought about a revolt of the stronger members, and the perfectly fair method of election by committee, employed since that time, has proved most satisfactory."

The difficulties outlined have been repeated many times in other chapters. In general their solution has been reached in much the same way, so this method of election is now specified in the Constitution and thus imposed upon the various chapters. While the method of electing members has not been subjected to criticism in recent years, there has been widespread discussion concerning the basis for reaching a decision in regard to the qualifications of the different types of members specified in the Constitution.

Regarding faculty elections there is little chance for any pronounced differences in opinion. The publication of research work is a specific test which can be applied as concrete evidence to establish the "noteworthy achievement as an original investigator" which the Constitution exacts of any faculty member in order to be eligible to active membership. Concerning the next group also, the specifications are equally definite since the "actual work" demanded by the Constitution to make resident graduates eligible can readily be demonstrated to a Board of Electors. But when one comes to consider undergraduates there is great diversity of opinion as to the meaning of the phrase "who has given promise of marked ability," by which the Constitution establishes the standard for elections from this group.

The present vigorous discussion of the question is by no means new. The same difficulties existed in the early days of the Society, and are vividly set forth in a letter recounting the experiences of that period:

"Those of us who remember the beginnings will recall that for several years candidates were discussed with a great deal of care by the whole chapter and often long meetings extending into the midnight hours and sometimes postponed second meetings were necessary to settle the question of proper candidates. In these meetings we conferred together and by working on concrete cases developed our ideas of the signs of real ability by which the proper undergraduate could be recognized. We fought over the 'marking system' and came to the conclusion that the marks given students for recitations and examinations were not (as then applied) a satisfactory criterion for judging the 'promise' along the lines contemplated by the Society. We learned that personal touch in the classroom and laboratory were needed to supplement the marks and that in our own classes were men who attained high marks who did not show as good promise as others lower in average standing, as measured by examination papers.

"We insisted that the marks were founded on ideals of scholarship, which as to mental ability signified little more than power of verbal memory and a close attention to language and words, and did not signify (not much at least) the ability of the student to compre-

hend what he had learned, nor his capacity to make original investigation and judgment of the truth, and could not be relied on as evidence of promise of ability to discover truth or to conduct original research successfully, which is demanded of a scientific scholar. The Yale men as the discussion progressed, caught the idea, but for some time the Society was in bad favor for presuming to question the 'marking system.' As the fundamental ideas of the Society came to be better understood, a strong chapter was developed at Yale.

"Later discussion has arisen as to the meaning of 'promise' in the Constitution. On the one side it has been urged that men should be elected only on evidence of some accomplished work, and the result of carrying out that idea would be to exclude undergraduates from election. In reply to this it has been urged that the Society, to be of most value in universities, must select the men in their formative period, and this election could be taken by them to mean that their elders recommended them to try their strength in graduate work; also that in case the Society waited for definite completed work, it would come into competition with the scientific societies in various branches of science whose membership is distinctly based upon acquirement of some real results by the path of original research.

"A move in the opposite direction has found many advocates; they have urged that in some branches of science and in technical subjects, when there are larger classes, it is very difficult to discover in the undergraduate sufficient expression of 'ability in research' to judge between one and another, so that in selecting the Society will be forced to rest purely upon marks, while in other subjects with fewer students or in fields of work where the student meets in closer relationship with his instructors in the laboratory, differences in this ability could be detected. It is urged that to apply the rules of the Society too rigidly will unduly exclude good men from the technical group."

NAME AND EMBLEMS

The key of Sigma Xi was devised by the first members, without attributing any special significance to the letters. In the first Constitution printed in 1888 the title of the Society is given in Art. I, Sec. 1, as follows:

> The name of this organization shall be known under the Greek designation of the Sigma Xi Society.

Several years later Professor Williams hunted out words to form an appropriate Greek motto having the same initials. The original form of the motto was Σπουδῶν Ξυνόνες with the significance "Partners in Investigation." Both this form of the motto and this interpretation appear written in an old record under the date of May 18, 1891.

In the Constitution as revised in 1892, Art. I, Sec. 1 appears thus:

> The name of this organization shall be the Society of the Sigma Xi; its motto Σπουδῶν Ξυνῶνες "Companions in Zealous Research."

The latter form of the Greek motto has been generally followed in publications of later date. It appears that this form is supported by classical authority as being the best Attic Greek.

At the Cornell Convention the Treasurer, Professor Comstock, was authorized to procure a seal and monogram, and two years later at Springfield, Professors Osborne and McMahon were instructed to devise a suitable letter head. One of the original members writes that the seal of the Society was designed by Professor Osborne, who also selected the colors that were adopted by the organization.

The original Constitution (1887) specified the conditions under which new chapters might be granted, but did not designate any chapter by name or letter, although it mentions the use of the chapter letter on the insignia of the Society. The later edition of the first Constitution (1888) opens with a list of the five chapters designated by Greek chapter letters. No reference is made to this in the text, but in the headings which introduce the list of members the names of these chapter letters appear again. No evidence has been found to show when the letters were granted or by whom they were given to these and to later chapters. Curiously, the letters used do not follow the order of the Greek alphabet or appear to be in any other way related to the names of the chapters employing them.

A clipping from an old Cornell college paper (of 1887 ?), in speaking of the early days of the Society and its rapid progress, says: "The society is in a prosperous condition and promises considerable benefit for its members. Already chapters have been established at Stevens Institute of Technology, Harvard, Rutgers, Massachusetts Institute of Technology, Rensselaer Polytechnic Institute, and Union College, and organizations of chapters are under way at several other colleges."

When the names in the list cited are compared in the order given with the letters of the Greek alphabet, provided Alpha is kept for the Cornell Chapter, each known chapter mentioned, either defunct or existing, receives its proper chapter letter with the exception of Union. Is it possible that Harvard was to have been the missing Gamma Chapter, Massachusetts Institute the missing Epsilon, and some "other college" the Eta Chapter? It is not improbable that in some details the plans of the founders were not realized. The missing chapter letters would certainly suggest that such was the case, whether or not the list cited indicates correctly the institutions at which chapters were to have been formed.

So far as old correspondence and official documents furnish any evidence, the letters which have been used in various places to refer to certain chapters are the following: Alpha, Cornell; Beta, Stevens Institute; Delta, Rutgers; Zeta, Rensselaer Polytechnic Institute; Theta, Union; Iota, Kansas; Kappa, Columbia; Mu, Minnesota; Pi, Pennsylvania; Upsilon, Yale; Omega, Ohio.

This irregularity is explained in part by unwritten records from the recollections of an early officer that "when Yale was founded its letter should have been Kappa, but the chapter objected to any letter but Y, saying that anyone who liked could call it Upsilon. The next chapter (Minnesota) followed the example of Yale and adopted the letter M; then came Nebraska with N, Ohio with O, Pennsylvania with P. Iowa wanted to take I, but could not on account of Kansas having Iota. California, Columbia, and Chicago could not all take C. This put an

end to the 'initial' business; and the convention of 1897 had in any case authorized the use of geographical names instead of Greek letters." When and why Minnesota's M became Mu, Pennsylvania's P became Pi, and Ohio's O became Omega research has not yet disclosed. The latter is particularly hard to decide since the files of the Society contain early correspondence from the Ohio Chapter asking to be assigned Omikron as a chapter letter. And the request was approved!

Within recent years several attempts have been made to establish again a list of chapter letters and to extend them to those chapters which have never been granted such designations. But no official action has been taken by any Convention, and no method is provided as yet by which any chapter may secure a chapter letter for its proper use.

The use of a designative initial would be both appropriate and convenient, but while the present list of chapters would furnish only one claimant each for B, K, O, R, U, and Y, there are two contestants each for N, P, and S, three each for I and M, four for W and six for C. An arbitrary designation would be difficult to introduce since the alphabetic sequence was abandoned so long ago and certain letters have been pre-empted. Meanwhile the newly organized chapters remain without any chapter letter although several have expressed repeatedly a desire for such a designation.

It is of course evident that the limits of either the Greek or the Roman alphabet have been reached and that if the Society is to have that development which its principles deserve, a double or even a triple letter combination would soon become necessary. The difficulties of remembering such a designation and applying it correctly are great within the organization and insurmountable outside of its circle. On the other hand a geographical or institutional designation is easily recognized and used by all; it does add an important fact for both writer and reader, and there is little ground for confusion. As one old member writes: "It may be heterodox but I like Cornell Chapter better than Alpha Chapter, although no one can fail to recognize the fitness of the latter name. Kansas Chapter has a meaning to me that Iota does not unless I consult the list which even we old members do not always have at hand; and to me, at least, Columbia sounds more dignified than Kappa. Why just think what Sigma Xi would have lost if the Yale men had been willing to submerge under some Greek initial the name of that grand institution and if we had not enjoyed the benefit of its standing in science."

PART III

THE WORK OF SIGMA XI

Of the further progress of the Society little need be said in detail. What one prominent Cornell member writes of that chapter has proved true of others generally:

"The Society had many ups and downs in its early years, but on the whole had a healthy growth, and has undoubtedly had a great and salutary effect at Cornell, for it was the plan of the founders of Sigma Xi

not merely that high standing should win election, but that powers of investigation should count for much."

The record of individual chapters is given in the historical sketches written by the chapter secretaries. The same difficulties have repeated themselves again and again in the different chapters. On the whole the new chapters have profited both by the experience of the older ones and by the increasing prestige which has accompanied the growth of the organization.

Sigma Xi has certainly done good service for American universities in emphasizing the educational and cultural value of scientific training. By stamping as the primary factor in scientific pursuits the power to investigate, to advance the limits of knowledge, it has laid the emphasis on the general good and has freed itself from the self-centered tendency of some educational movements. Locally it has often taken the lead in the discussion of educational values, and while never failing to recognize the worth of research in pure science both to the individual and to the world, it has put on an equal basis the pursuit of applied science which in the hands of modern civilized nations has prolonged human life and made it in a thousand ways infinitely better worth living. The emphasis thus laid upon service may justly be regarded as a worthy contribution to the advancement of the nation.

The Society has contributed to the encouragement of research in the first instance by adopting the research standard as its basis in the election of members. The selection is limited in the case of faculty members and of graduate students to those who have demonstrated their ability in investigation, and even among the undergraduates the clearly evidenced promise of such ability is the essential condition for nomination and election. Everyone must recognize some imperfections in the system and yet the errors in individual cases disappear when one examines the total result. There is abundant testimony that the ideals which Sigma Xi has upheld in university and college circles have stimulated many to enter upon or to train for research work in order to prove themselves worthy of membership. On the other hand membership has brought to others in equal numbers a realization of the responsibility laid upon them to uphold the high standards of Sigma Xi.

The various chapters have sought further to emphasize investigation by paying due honor to the investigator. From the outset chapters have held private meetings at stated intervals at which the programs have been devoted primarily to the presentation of the results of investigations both on the part of members and of others. Such meetings have been instrumental in putting members broadly in touch with the progress of science and in counteracting the narrow specialism so readily produced by intensive research in any one field. They have suggested new relations between different lines of work and have been a distinct stimulus to further research on the part of both speakers and hearers. The development of the social and fraternal spirit among investigators has been a useful and otherwise undischarged function in many communities.

In many of the older institutions of learning in this country it has been the custom for nearly half a century to include among the

events of commencement week a literary oration delivered by some distinguished man appearing under the auspices of Phi Beta Kappa. Minnesota was apparently the first to appreciate that the new learning deserved equally dignified presentation before the university public, and on June 3, 1896, Professor Henry T. Eddy, later President of Sigma Xi (1909-1911), delivered the first Sigma Xi Commencement Oration. The independent relation existed only a few years and was supplanted by a new arrangement. Sigma Xi undertook to alternate with Phi Beta Kappa in securing some distinguished speaker to address the university community during commencement week under the joint auspices of the two societies. The first speaker under this new plan was Professor T. C. Mendenhall, who delivered the annual address on May 31, 1899. A year later the Kansas chapter inaugurated the same plan at the University of Kansas. Since then Pennsylvania, Illinois, and perhaps other chapters, have made similar arrangements. For some years the Nebraska chapter provided for the midwinter commencement of the University an oration by some scientific man of national reputation in the same fashion as Phi Beta Kappa cared for the summer commencement by introducing a literary oration.

In connection with the regular series of private meetings some chapters have also provided open meetings with a more formal program to which the general public has been invited. The object of bringing the results of scientific investigations effectively before the community has been so well attained by such public addresses that certain chapters have endeavored to emphasize still more strongly the purpose of the Society by inviting speakers from a distance and giving to the occasion a more conspicuous character. In order to secure the advantages of united action the four chapters at Missouri, Kansas, Iowa, and Nebraska organized a circuit and provided for a group of three or four addresses to be given at each university in successive periods. The month of February was selected as the most favorable season. The first speaker in 1907 was Doctor Charles S. Minot of Harvard; in 1908, Professor R. H. Chittenden of Yale delivered the addresses; in 1909 Professor A. G. Webster of Clark, and in 1910 Professor Percival Lowell of Harvard. The plan proved so successful that other chapters desired to be included in the circuit and ultimately several such circuits were organized in the mid-west. While every university community is favored with many addresses by men of prominence and ability, these Sigma Xi lectures have met with distinct favor and the fundamental reason lies in the presentation in a form intelligible to an educated audience of the results of scientific research by men who speak with authority and are recognized as themselves investigators of first rank.

At least one chapter, Ohio, has been the recipient of funds from outside sources for the maintenance of an independent series of such lectures by scientific investigators. The results of the gift are recorded in the history of the Ohio chapter.

Although such influences have been exercised in the main in a purely local fashion and reach the great body of the people through a multitude of minute channels so that they are difficult to detect and still more difficult to measure, yet when occasion offers the training for service

and the impulse to it have manifested themselves in a more conspicuous fashion. The most striking instance of this is undoubtedly the relation of the California chapter to the invasion of bubonic plague, related so briefly and unostentatiously in the history of that chapter. It would be impossible to estimate in any adequate fashion the commercial and humanitarian results following directly from this action of the California chapter; and the published report of this work has been the means of helping scientific workers and health officials in widely scattered communities both in the United States and beyond its limits. In fact this publication has been commented on by foreign investigators of international reputation as the greatest single contribution ever published on the subject of the eradication of bubonic plague.

Record should be made of the fact, as is conspicuously shown in the history of the Society, that Sigma Xi has not accepted or followed any narrow definition of research. It has laid the emphasis on creative power in the broad sense and has recognized that the engineer in constructing a bridge or in solving some other technical problem which presents itself in the course of his professional work may manifest the same originality that is shown by the student of natural or physical science in the work more ordinarily called investigation. Sigma Xi has not been blind to the fact that the breeder who seeks to develop a new type of grain or a strain of any given variety of domesticated animal meets an unknown situation that demands as great accuracy in observing, comparing, and utilizing data, as great investigative and creative power as the chemist who strives to build up new compounds or the physiologist who experiments to analyze complicated functions into their component parts. Sigma Xi may justly trace much of her success to this power to recognize original investigation in a higher sense than is embraced in the definition of the scholastic, and may safely rest her future on this readiness to seek and to know the truth wherever it can be found.

MEMBERSHIP RECORDS

A brief pamphlet on the organization of Sigma Xi, printed in 1888 by the Alpha Chapter, gives a list of the chapters with officers and members at that date. It records five chapters with 108 members, of which Cornell had sixty, Stevens six, Rutgers twelve, Rensselaer sixteen, and Union fourteen. On 1893 the second complete list of members was published, also by the Alpha Chapter; this list included only four chapters, but the membership roll had grown to 318, distributed as follows: Cornell, 196; Rensselaer, 48; Union, 36; Kansas, 38. Since then no general record of the membership has been published up to the date of the present work.

Many partial records have been prepared by different chapters. Kansas printed in 1899 the first membership record of an individual chapter and in 1905 published a supplement list. The Yale Chapter issued a complete chapter record in 1905. In 1907 both Columbia and Union published such lists, and Minnesota did the same in 1908.

The growth of Sigma Xi in membership may be traced in the statistical tables appended to the convention proceedings. Such data were first included in the Proceedings of the Fourth Convention, 1899,

although in brief form. They have grown more complete in recent years. In the earlier years, the series is biennial only; and in some cases the figures conform to the time of printing the pamphlet, while in others they agree with the date of the convention. Unfortunately, also, these data contain evident and sometimes serious errors due to various causes, and it was difficult to get the series corrected by the chapters, as the officers responsible for them had retired and the errors were not easy to check. Hence the lists of names submitted by the various chapters for this Record were collated and the results are given in the form of tables appended to this discussion (page 32). Even this method has not yielded results that are comparable in all respects, but the figures do not depart widely from the truth, although they differ distinctly from the data given in the Proceedings of earlier date.

The lists of names printed in the Record do not afford any basis for determining the active membership and the table showing this is made from the earlier Convention Proceedings. It does not cover the time before 1899 but even then Sigma Xi had only eight chapters, in which the largest active membership was 68 at Cornell, whereas three out of the eight chapters had less than 25 members each at that date. The total working membership in that year was only 279. In 1911 every chapter of the first list but one had doubled or trebled its active membership, and the new chapters had brought the total active membership up to 1,868, a sixfold increase in twelve years.

The data on total membership are grouped under 26 calendar years, covering the 25 years of the Society's history. From this table it appears that after ten years of existence Sigma Xi listed 645 members in six chapters. Five years later it had nearly tripled its membership, having 1,559 members in twice as many chapters as before. Again in 5 years it more than tripled its membership and at the same time doubled its chapter list, having 4,090 members in 23 chapters. In the last five years the total membership has almost doubled again, reaching the grand total listed in this volume of 7,498 members in 28 chapters. Cornell is the only chapter which has yet passed the thousand mark and Yale the only other that has half as many, although four others have reached close to the five hundred limit.

The table giving the annual elections to membership enables one to determine the character of the growth made by the Society and its individual chapters. For ten years the total annual increment never reached 100, even including the charter members of newly organized chapters. It rose to 260 in the fifteenth year, to 612 in the twentieth, and to the maximum of 731 in the twenty-third, only to fall again to 659 in the twenty-fifth year. The number of graduate students elected in the first ten years was very small, probably because there were not many available. In recent years the selection of graduate students has been more marked. In this the Society has only followed the growth of graduate instruction in the institutions in its membership. Of the present total membership recorded in this volume, 601, or 8 per cent, were charter members, 3,153, or 42 per cent, were elected from the undergraduates, 2,061, or 28 per cent, were chosen as graduate students, 1,334, or 18 per cent, as faculty members, and only 349, or less than 5

per cent, as alumni members. Probably the last figures should be raised, as some chapters seem to have entered alumni members under graduate elections to membership. Even with that it appears that the chapters have not availed themselves to any large extent of the privilege of electing alumni members. The classified totals also show that the chapters differ widely in their policy, as some have elected large numbers of undergraduate members and others have confined their elections almost wholly to graduate students.

In consulting the tables it should be borne in mind that by order of the Washington Convention the chapter rolls for this Record closed with December 31, 1911. If the reader wishes to study the record of an individual chapter he will follow the horizontal line introduced by the name of the chapter. On the other hand the vertical columns show the condition of the Society in any given year and the successive totals trace the changes in the entire organization during the quarter century of its history just completed.

ACTIVE MEMBERSHIP BY CHAPTERS

No.	Chapter	1899	1901	1902	1904	1907	1908	1909	1910	1911
1	Cornell	68	75	91	82	108	127	152	140	132
2	Rensselaer	13	9	9	10	18	24	28	28	41
3	Union	10	8	10	14	11	12	12	13	12
4	Kansas	24	26	31	35	50	65	62	82	72
5	Yale	50	65	91	86	105	120	121	119	114
6	Minnesota	44	45	47	54	70	81	84	86	100
7	Nebraska	32	39	38	40	48	60	62	59	58
8	Ohio State	38	40	55	60	70	70	74	79	80
9	Pennsylvania	..	37	47	68	70	102	114	115	98
10	Brown	..	29	28	33	45	39	40	38	37
11	Iowa	..	17	22	30	47	48	47	51	63
12	Stanford	..	..	26	38	38	40*	41	55	53
13	California	..	..	57	66	85	93	77	73	69
14	Columbia	..	..	26	87	45	45	50*	50*	58
15	Chicago	..	..	..	127	257	165	135	165	166
16	Michigan	..	..	..	46	83	81	82	104	90
17	Illinois	..	..	..	48	78	90	133	154	134
18	Case	..	..	..	15	26	32	21	20	18
19	Indiana	..	..	..	14	34	33	34	36	30
20	Missouri	..	..	..	..	46	63	76	62	62
21	Colorado	..	..	..	..	39	32	35	36	42
22	Northwestern	..	..	..	..	24	30	39	44	33
23	Syracuse	..	..	..	..	25	33	41	44	45
24	Wisconsin	..	..	..	..	42	78	113	129	129
25	Washington State	..	..	..	..	22	24	27	37	37
26	Worcester	..	..	..	..	..	34	27	42	26
27	Purdue	..	..	..	..	..	..	20	34	42
28	Washington University	..	..	..	..	..	..	..	13	27
	Totals by years	279	390	578	953	1486	1621	1747	1908	1868

The figures are taken from Chapter Reports as published in Convention Proceedings. *Estimated.

TOTAL MEMBERSHIP OF SIGMA XI

No.	Name	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898
	Active Chapters													
1	Cornell	14	47	92	108	129	156	182	205	250	279	319	358	400
2	Rensselaer	..	16	23	28	31	38	46	53	54	61	64	69	76
3	Union	..	15	19	23	26	30	35	39	45	57	64	71	78
4	Kansas	..	..	..	..	21	25	30	37	48	53	66	73	78
5	Yale	..	..	..	..	..	..	..	..	..	44	76	102	132
6	Minnesota	..	..	..	..	..	..	..	..	..	..	38	53	73
7	Nebraska	..	..	..	..	..	..	..	..	..	..	..	32	68
8	Ohio State	..	..	..	..	..	..	..	..	..	..	..	..	57
	Defunct Chapters													
*	Stevens (Beta)	..	12	..	..	..	..	..	..	..	..	..	..	..
*	Rutgers (Delta)	..	6	..	..	..	..	..	..	..	..	..	..	..
	Totals by years	14	96	152	177	225	267	301	352	415	512	645	776	980

No.	Name	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911
	Active Chapters													
1	Cornell	442	493	549	606	665	722	775	854	894	935	978	1011	1070
2	Rensselaer	79	84	88	94	104	114	124	132	148	163	182	195	208
3	Union	78	80	83	90	99	102	111	120	128	138	145	157	164
4	Kansas	86	99	107	125	131	147	160	173	189	212	236	271	286
5	Yale	158	188	221	257	289	330	364	410	446	488	524	551	597
6	Minnesota	87	102	119	143	160	186	210	229	252	276	308	329	334
7	Nebraska	83	100	109	117	128	143	155	179	201	224	243	266	289
8	Ohio State	59	72	80	104	119	128	172	192	216	239	268	293	324
9	Pennsylvania	..	64	95	129	156	198	234	260	287	317	348	411	440
10	Brown	..	35	50	58	69	75	86	109	116	122	136	156	168
11	Iowa	..	15	24	32	36	58	75	97	112	127	145	165	182
12	Stanford	..	..	..	34	40	64	80	88	107	125	143	163	180
13	California	..	..	16	61	86	110	134	160	181	208	232	360	393
14	Columbia	..	..	..	..	75	102	172	210	250	283	306	338	376
15	Chicago	..	..	..	..	108	170	203	231	276	307	367	381	425
16	Michigan	..	..	..	..	67	101	146	192	239	287	339	388	443
17	Illinois	..	..	..	..	40	68	98	133	188	262	364	411	467
18	Case	..	..	..	..	..	19	41	59	80	96	128	141	161
19	Indiana	..	..	..	..	..	16	37	61	70	78	85	93	101
20	Missouri	..	..	..	..	..	..	56	73	87	109	127	148	161
21	Colorado	..	..	..	..	..	..	32	45	54	69	77	85	90
22	Northwestern	..	..	..	..	..	..	..	38	54	65	83	89	90
23	Syracuse	..	..	..	..	..	..	..	27	43	51	59	73	85
24	Wisconsin	..	..	..	..	..	..	..	..	79	97	132	153	177
25	Washington State	..	..	..	..	..	..	..	..	39	50	59	64	70
26	Worcester	..	..	..	..	..	..	..	..	..	34	55	70	83
27	Purdue	..	..	..	..	..	..	..	..	..	..	24	47	72
28	Washington University	..	..	..	..	..	..	..	..	..	..	..	12	46
	Totals by years	1090	1350	1559	1868	2390	2871	3483	4090	4754	5380	6111	6839	7498

Number	Name	1886 Charter Members	1886 Undergraduates	1886 Graduate Students	1886 Faculty Members	1886 Alumni Members	1887 Charter Members	1887 Undergraduates	1887 Graduate Students	1887 Faculty Members	1887 Alumni Members	1888 Charter Members	1888 Undergraduates	1888 Graduate Students	1888 Faculty Members	1888 Alumni Members	1889 Charter Members	1889 Undergraduates	1889 Graduate Students	1889 Faculty Members	1889 Alumni Members	1890 Charter Members	1890 Undergraduates	1890 Graduate Students	1890 Faculty Members	1890 Alumni Members
	Active Chapters																									
1	Cornell	13			1			7	1	13	12		13	4	2	26		11	4		1		16	4	1	
2	Rensselaer						7	7		2			7					4		1			3			
3	Union						15							2	2				3	1				1	2	
4	Kansas																					5	4	1	4	7
	Defunct Chapters																									
	Stevens (Beta)						5	1																		
	Rutgers (Delta)						5	4		3																
	Classified totals	13			1		32	19	1	18	12		20	6	4	26		15	7	2	1	5	23	6	7	7
	Grand totals	14					82					56					25					48				

Number	Name	1891 Charter Members	1891 Undergraduates	1891 Graduate Students	1891 Faculty Members	1891 Alumni Members	1892 Charter Members	1892 Undergraduates	1892 Graduate Students	1892 Faculty Members	1892 Alumni Members	1893 Charter Members	1893 Undergraduates	1893 Graduate Students	1893 Faculty Members	1893 Alumni Members	1894 Charter Members	1894 Undergraduates	1894 Graduate Students	1894 Faculty Members	1894 Alumni Members	1895 Charter Members	1895 Undergraduates	1895 Graduate Students	1895 Faculty Members	1895 Alumni Members
	Active Chapters																									
1	Cornell		13	7	7			10	9	6	1		13	8	2			16	23	6			13	14	2	
2	Rensselaer		7					8					7					1					6		1	
3	Union			3		1			3	1	1			4					4	2				7	5	
4	Kansas		2			2		3	2				5		2			7		1	3		4		1	
5	Yale																					20	17	3	4	
	Classified totals		22	10	7	3		21	14	7	2		25	12	4			24	27	9	3	20	40	24	13	
	Grand totals	42					44					41					63					97				

Number	Name	1896 Charter Members	1896 Undergraduates	1896 Graduate Students	1896 Faculty Members	1896 Alumni Members	1897 Charter Members	1897 Undergraduates	1897 Graduate Students	1897 Faculty Members	1897 Alumni Members	1898 Charter Members	1898 Undergraduates	1898 Graduate Students	1898 Faculty Members	1898 Alumni Members	1899 Charter Members	1899 Undergraduates	1899 Graduate Students	1899 Faculty Members	1899 Alumni Members	1900 Charter Members	1900 Undergraduates	1900 Graduate Students	1900 Faculty Members	1900 Alumni Members
1	Cornell		24	15	1			23	9	7			32	7	3			24	14	3	1		33	12	6	
2	Rensselaer		3					5					6		1			3					5			
3	Union			7					6	1				3	3	1								1	1	
4	Kansas		6	1	4	2		5	1	1			3	1	1			5	1	1	1		9	1	2	1
5	Yale		14	7	10	1		12	6	8			15	12	3			17	7	2			22	6	2	
6	Minnesota	18	11	5	4			12	2	1			15	2	3			11	1	2			13	1	1	
7	Nebraska						13		8	10	1		33	3				13	2				13	4		
8	Ohio State											28	5	3	21			1	1				10	1	2	
9	Pennsylvania																					12	24	12	16	
10	Brown																					28	4	3		
11	Iowa																					12	1	1	1	
	Classified totals	18	58	35	19	3	13	57	32	28	1	28	109	31	35	1		74	26	8	2	52	134	42	31	1
	Grand totals	133					131					204					110					260				

Number	Name	1901 Charter Members	1901 Undergraduates	1901 Graduate Students	1901 Faculty Members	1901 Alumni Members	1902 Charter Members	1902 Undergraduates	1902 Graduate Students	1902 Faculty Members	1902 Alumni Members	1903 Charter Members	1903 Undergraduates	1903 Graduate Students	1903 Faculty Members	1903 Alumni Members	1904 Charter Members	1904 Undergraduates	1904 Graduate Students	1904 Faculty Members	1904 Alumni Members	1905 Charter Members	1905 Undergraduates	1905 Graduate Students	1905 Faculty Members	1905 Alumni Members
1	Cornell		31	20	5			41	14	2			34	19	4	2		37	14	6			34	12	6	1
2	Rensselaer		4					6					10					10					7		3	
3	Union			1	2				4	2	1			4	5			1	2					5	4	
4	Kansas		4	2	1	1		8	6	2	2		4		2			9	2	5			10	1	2	
5	Yale		18	10	5			18	12	6			16	12	3	1		27	11	3			17	12	5	
6	Minnesota		12	2	3			16	1	7			15	2				21	1	4			17		7	
7	Nebraska		8	1				5	3					8	2	1			14	1				11	1	
8	Ohio State		7	1				10	2	12			12	1	2			9					15	3	1	25
9	Pennsylvania		22	3	6			20	6	8			22	4	1			23	5	14			26	6	4	
10	Brown		5	7		3		2	3	1	2		3	5	3			4		2			5	6		
11	Iowa		4	2	3			5	2	1			2	1	1			8	8	6			6	5	6	
12	Stanford						14		3	17				4	2				11	2	11		1	7	4	4
13	California	16						13	9	23			7	4	14			11	4	9			14	3	7	
14	Columbia											22	1	52				8	17	1	1		12	27		31
15	Chicago											62		39	6	1		1	49	10	2			31	2	
16	Michigan											36	3	5	23			20	4	9	1		33	6	6	
17	Illinois											39		1				23	4	1			19	7	4	
18	Case																17	1			1		7		2	13
19	Indiana																14			2			3	7	7	4
20	Missouri																					23	6	9	17	1
21	Colorado																					14	2	8	8	
	Classified totals	16	115	49	25	4	14	144	65	81	5	159	129	161	68	5	31	213	146	75	16	37	234	166	96	79
	Grand totals	209					309					522					481					612				

Numbers	Name	1906 Charter Members	1906 Undergraduates	1906 Grad'te Students	1906 Faculty Members	1906 Alumni Members	1907 Charter Members	1907 Undergraduates	1907 Grad'te Students	1907 Faculty Members	1907 Alumni Members	1908 Charter Members	1908 Undergraduates	1908 Grad'te Students	1908 Faculty Members	1908 Alumni Members	1909 Charter Members	1909 Undergraduates	1909 Grad'te Students	1909 Faculty Members	1909 Alumni Members
	Active Chapters																				
1	Cornell	...	48	19	12	...	...	12	13	13	2	...	7	26	7	1	...	7	30	6	...
2	Rensselaer	...	8	...	...	...	...	16	...	...	...	...	12	...	3	...	...	15	...	4	...
3	Union	...	...	9	...	...	...	...	7	1	...	...	...	8	2	...	...	...	6	...	1
4	Kansas	...	11	1	1	...	...	10	2	4	...	...	18	2	2	1	...	11	3	9	1
5	Yale	...	24	16	6	...	...	17	13	6	...	...	24	6	12	...	...	21	13	2	...
6	Minnesota	...	17	1	1	...	...	14	3	6	...	...	17	5	2	...	...	24	4	4	...
7	Nebraska	...	...	18	6	...	...	...	20	2	...	...	...	21	2	...	...	...	12	5	2
8	Ohio State	...	11	7	2	...	...	19	2	3	...	...	12	5	6	...	...	16	7	6	...
9	Pennsylvania	...	15	7	4	...	...	18	3	6	...	...	18	2	10	...	...	22	5	4	...
10	Brown	...	8	5	1	9	...	6	1	...	...	...	5	1	...	...	...	12	1	1	...
11	Iowa	...	10	6	6	...	...	7	4	4	...	...	6	5	4	...	...	12	6	...	...
12	Stanford	...	...	3	2	3	...	...	4	2	13	...	4	7	4	3	...	1	11	4	2
13	California	...	11	3	11	1	...	11	4	3	3	...	14	6	6	1	...	12	5	7	...
14	Columbia	...	15	23	...	...	...	24	15	1	...	...	16	15	1	1	...	11	10	2	...
15	Chicago	...	...	27	1	...	...	1	40	2	2	...	1	29	1	...	...	...	59	1	...
16	Michigan	...	30	6	10	...	...	37	8	2	...	...	38	5	5	...	...	36	6	10	...
17	Illinois	...	19	5	11	...	...	34	2	19	...	...	37	5	32	...	...	49	25	24	4
18	Case	...	12	...	1	5	...	8	...	8	5	...	11	...	1	4	...	16	...	4	12
19	Indiana	...	9	8	6	1	...	3	4	2	...	...	1	5	2	...	...	...	7	...	...
20	Missouri	...	6	7	4	...	...	7	1	6	...	...	11	...	11	...	...	12	3	3	...
21	Colorado	...	...	4	9	...	...	1	5	3	...	...	6	3	6	...	...	3	3	2	...
22	Northwestern	27	7	4	...	...	...	7	7	1	1	...	2	3	5	1	...	5	5	7	1
23	Syracuse	16	...	3	6	2	...	...	4	9	3	...	...	4	4	...	...	...	6	2	...
24	Wisconsin	...	...	...	...	...	42	...	...	33	4	...	...	1	16	1	...	...	2	22	11
25	Washington State	...	...	...	...	...	27	3	3	6	...	...	5	1	4	1	...	5	1	3	...
26	Worcester	...	...	...	...	...	...	...	...	...	...	18	14	1	...	1	...	14	3	4	...
27	Purdue	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21	...	...	3	...
	Classified totals	43	261	182	100	21	69	255	165	142	33	18	279	166	148	15	21	304	233	139	34
	Grand totals	607					664					626					731				

Numbers	Name	1910 Charter Members	1910 Undergraduates	1910 Graduate Students	1910 Faculty Members	1910 Alumni Members	1911 Charter Members	1911 Undergraduates	1911 Graduate Students	1911 Faculty Members	1911 Alumni Members	Totals, Classified: Charter Members	Totals, Classified: Undergraduates	Totals, Classified: Graduate Students	Totals, Classified: Faculty Members	Totals, Classified: Alumni Members	Grand Totals
1	Cornell	...	2	27	3	1	...	15	38	5	1	13	516	363	129	49	1070
2	Rensselaer	...	12	...	1	...	...	13	...	...	...	7	185	...	16	...	208
3	Union	...	...	9	2	1	...	6	...	...	1	15	6	98	38	7	164
4	Kansas	...	19	4	10	2	...	15	...	...	...	5	172	31	55	23	286
5	Yale	...	18	7	2	...	...	26	14	6	...	20	323	167	85	2	597
6	Minnesota	...	15	3	2	1	...	1	3	1	...	18	231	36	48	1	334
7	Nebraska	...	...	12	10	1	...	8	10	...	3	13	80	147	39	8	287
8	Ohio State	...	8	11	6	...	...	19	...	2	10	28	154	44	63	35	324
9	Pennsylvania	...	18	4	15	26	...	26	1	2	...	12	254	58	90	26	440
10	Brown	...	8	12	...	...	...	11	...	1	...	28	73	44	9	14	168
11	Iowa	...	10	4	6	...	...	13	3	1	...	12	84	47	39	...	182
12	Stanford	...	1	13	2	4	...	...	11	6	...	14	7	74	45	40	180
13	California	...	17	106	5	...	...	12	15	6	...	16	118	155	95	9	393
14	Columbia	...	20	10	2	...	...	25	5	8	...	22	132	174	15	33	376
15	Chicago	...	...	13	1	...	...	1	38	5	...	62	4	325	29	5	425
16	Michigan	...	34	9	6	...	...	38	10	6	1	36	269	59	77	2	443
17	Illinois	...	23	6	18	...	...	27	12	17	...	39	231	67	126	4	467
18	Case	...	10	...	3	...	...	12	...	4	4	17	77	...	23	44	161
19	Indiana	...	...	3	5	...	...	...	7	1	...	14	16	41	25	5	101
20	Missouri	...	11	4	6	...	...	9	3	1	...	23	62	27	48	1	161
21	Colorado	...	3	1	4	...	...	3	...	2	...	14	18	24	34	...	90
22	Northwestern	...	6	...	...	...	...	...	...	1	...	27	27	19	14	3	90
23	Syracuse	...	...	10	4	...	...	...	8	4	...	16	...	35	29	5	85
24	Wisconsin	...	...	9	8	4	...	...	3	17	4	42	...	15	96	24	177
25	Washington State	...	2	2	1	...	...	6	...	...	...	27	21	7	14	1	70
26	Worcester	...	13	...	2	...	...	11	...	2	...	18	52	4	8	1	83
27	Purdue	...	9	...	14	...	...	12	...	13	...	21	21	...	30	0	72
28	Washington University	12	...	...	...	...	...	15	...	12	7	12	15	...	12	7	46
	Defunct Chapters																
	Stevens (Beta)	...	...	...	...	...	...	...	...	...	...	5	1	...	...	...	6
	Rutgers (Delta)	...	...	...	...	...	...	...	...	...	...	5	4	...	3	...	12
	Classified totals	12	259	279	138	40	...	324	181	123	31	601	3153	2061	1334	349	
	Grand totals	728					659										7498

OFFICERS OF THE GENERAL SOCIETY

PRESIDENTS OF SIGMA XI

Edward Leamington Nichols . . .	(Cornell)	1893
Charles Caroll Brown	(Union)	1893–1895
Henry Shaler Williams	(Yale)	1895–1901
Samuel Wendell Williston . . .	(Kansas)	1901–1904
Edward Leamington Nichols . . .	(Cornell)	1904–1909
Frank Olin Marvin	(Kansas)	1909–1910
Henry Turner Eddy	(Minnesota)	1910

The records do not show that the General Society had any regularly constituted officers before the First Convention at Ithaca in 1893.

VICE-PRESIDENTS OF SIGMA XI

Louis Munroe Dennis	(Cornell)	1893
Frank Olin Marvin	(Kansas)	1895–1897
Henry Turner Eddy	(Minnesota)	1897–1899
Samuel Wendell Williston . . .	(Kansas)	1899–1901
Henry Turner Eddy	(Minnesota)	1901–1904
Thomas Huston Macbride	(Iowa)	1904–1909
Francis Cary Caldwell	(Ohio)	1909–1910
John Merle Coulter	(Chicago)	1910

RECORDING SECRETARIES OF SIGMA XI

John Henry Tanner (Cornell), at the Ithaca Convention in 1893.

James McMahon (Cornell), at the Springfield Convention in 1895.

James McMahon (Cornell), *pro tempore*, vice James McGiffert, Junior (Rensselaer), absent, at the Toronto Convention in 1897.

Francis Cary Caldwell (Ohio State), *pro tempore*, vice Elton David Walker (Union) absent, at the Columbus Convention in 1899.

James McMahon (Cornell), *pro tempore*, vice Francis Cary Caldwell (Ohio State) absent, at the Denver Convention in 1901.

Edwin Schofield Crawley (Pennsylvania), at the Washington Convention in 1902, and at the Philadelphia Convention in 1904.

Herbert Osborn (Ohio State), vice William Trelease (Cornell) resigned, at the New York Convention in 1906.

Herbert Osborn (Ohio State), at the Chicago Convention in 1908 and at the Baltimore Convention in 1909.

John Clayton Tracy (Yale), at the Boston Convention in 1909.

Francis Clinton Shenehon (Minnesota), *pro tempore*, vice John Clayton Tracy (Yale) absent, at the Minneapolis Convention in 1910.

Dayton Clarence Miller (Case), at the Washington Convention in 1911.

CORRESPONDING SECRETARIES OF SIGMA XI

James McMahon	(Cornell)	1893–1904
Henry Baldwin Ward	(Illinois)	1904

TREASURERS OF SIGMA XI

John Henry Comstock	(Cornell)	1893–1895
James Hough Stoller	(Union)	1895–1897
Henry Byron Newson	(Kansas)	1897–1899
Ellery Williams Davis	(Nebraska)	1899–1901
Laenas Clifford Weld	(Iowa)	1901–1904
Lucien Marcus Underwood	(Columbia)	1904–1908
James Furman Kemp	(Columbia)	1908

COUNCIL OF THE SOCIETY OF THE SIGMA XI[1]

THE COUNCIL FOR 1895–1897

EX-OFFICIIS

President . . . . . Henry Shaler Williams (Yale)
Vice-President . . . . Frank Olin Marvin (Kansas)
Recording Secretary . . . James McGiffert, Junior (Rensselaer)
Treasurer . . . . . James Hough Stoller (Union)
Corresponding Secretary . . James McMahon (Cornell)

CHAPTER REPRESENTATIVES

Charles Francis Osborne (Cornell)
Chairman of the Council
Charles Winthrop Crockett (Rensselaer)
Charles Smith Prosser (Union)
Samuel Wendell Williston (Kansas)
Louis Valentine Pirsson (Yale)

THE COUNCIL FOR 1897–1899

EX-OFFICIIS

President . . . . . Henry Shaler Williams (Yale)
Vice-President . . . . Henry Turner Eddy (Minnesota)
Recording Secretary . . . Elton David Walker (Union)
Corresponding Secretary . . James McMahon (Cornell)
Treasurer . . . . . Henry Byron Newson (Kansas)

CHAPTER REPRESENTATIVES

Edward Leamington Nichols (Cornell)
Chairman of the Council
Charles Winthrop Crockett (Rensselaer)
Charles Smith Prosser (Union)
Samuel Wendell Williston (Kansas)
Henry Shaler Williams (Yale)
William Ricketson Hoag (Minnesota)

[1] The Council was first provided for in amendments to the Constitution adopted at the Springfield Convention in 1895. The term of members elected by chapters was then made five years. As new chapters were installed and new councilors elected, the membership of the Council changed irregularly. The new Constitution, adopted December 28, 1911, fixed the term of a councilor at three years and provided that one third of the members retire each year.

THE COUNCIL FOR 1899–1901

EX-OFFICIIS

President . . . . . Henry Shaler Williams (Yale)
Vice-President . . . . Samuel Wendell Williston (Kansas)
Recording Secretary . . . Francis Cary Caldwell (Ohio)
Corresponding Secretary . . James McMahon (Cornell)
Treasurer . . . . . Ellery Williams Davis (Nebraska)

CHAPTER REPRESENTATIVES

Edward Leamington Nichols (Cornell)
Chairman of the Council
Charles Winthrop Crockett (Rensselaer)
Maurice Perkins (Union)
Erasmus Haworth (Kansas)
Louis Valentine Pirsson (Yale)
William Ricketson Hoag (Minnesota)
Charles Edwin Bessey (Nebraska)
Albert Martin Bleile (Ohio)

THE COUNCIL FOR 1901–1902

EX-OFFICIIS

President . . . . . Samuel Wendell Williston (Kansas)
Vice-President . . . Henry Turner Eddy (Minnesota)
Recording Secretary . . Edwin Schofield Crawley (Pennsylvania)
Corresponding Secretary James McMahon (Cornell)
Treasurer . . . . Laenas Gifford Weld (Iowa)

CHAPTER REPRESENTATIVES

Edward Leamington Nichols (Cornell)
Chairman of the Council
Charles Winthrop Crockett (Rensselaer)
Maurice Perkins (Union)
Erasmus Haworth (Kansas)
Louis Valentine Pirsson (Yale)
Henry Turner Eddy (Minnesota)
Charles Edwin Bessey (Nebraska)
Albert Martin Bleile (Ohio State)
Edgar Fahs Smith (Pennsylvania)
John Edward Hill (Brown)
Samuel Calvin (Iowa)

THE COUNCIL FOR 1902–1904

EX-OFFICIIS

President . . . . Samuel Wendell Williston (Kansas)
Vice-President . . Henry Turner Eddy (Minnesota)
Recording Secretary . Edward Schofield Crawley (Pennsylvania)
Corresponding Secretary James McMahon (Cornell)
Treasurer . . . . Laenas Gifford Weld (Iowa)

CHAPTER REPRESENTATIVES

Edward Leamington Nichols (Cornell)
Chairman of the Council
Charles Winthrop Crockett (Rensselaer)
James Reagles Truax (Union)
Frank Olin Marvin (Kansas)
Louis Valentine Pirsson (Yale)
Henry Turner Eddy (Minnesota)
Charles Edwin Bessey (Nebraska)
Albert Martin Bleile (Ohio State)
Edgar Fahs Smith (Pennsylvania)
John Edward Hill (Brown)
Samuel Calvin (Iowa)
George Abram Miller (Stanford)
William Emerson Ritter (California)
Henry Edward Crampton (Columbia)

THE COUNCIL FOR 1904–1906

EX-OFFICIIS

President	Edward Leamington Nichols (Cornell)
Vice-President	Thomas Huston Macbride (Iowa)
Recording Secretary . .	William Trelease (Cornell)
Corresponding Secretary .	Henry Baldwin Ward (Nebraska)
Treasurer	Lucien Marcus Underwood (Columbia)

CHAPTER REPRESENTATIVES

Frank Olin Marvin (Kansas)
Chairman of the Council
Henry Shaler Williams (Cornell)
Charles Winthrop Crockett (Rensselaer)
Olin Henry Landreth (Union)
John Clayton Tracy (Yale)
Henry Turner Eddy (Minnesota)
Ellery Williams Davis (Nebraska)
Charles Smith Prosser (Ohio State)
Edgar Fahs Smith (Pennsylvania)
John Edward Hill (Brown)
Samuel Calvin (Iowa)
George Abram Miller (Stanford)
William Emerson Ritter (California)
Henry Edward Crampton (Columbia)
Joseph Paxson Iddings (Chicago)
Frederick Charles Newcombe (Michigan)
Morgan Brooks (Illinois)
Charles Sumner Howe (Case)
Carl H Eigenmann (Indiana)

THE COUNCIL FOR 1907–1909

EX-OFFICIIS

President . . . . . Edward Leamington Nichols (Cornell)
Vice-President . . . . Thomas Huston Macbride (Iowa)
Recording Secretary . . Herbert Osborn (Ohio State)
Corresponding Secretary . Henry Baldwin Ward (Nebraska)
Treasurer . . . . . Lucien Marcus Underwood (Columbia)

CHAPTER REPRESENTATIVES

Frank Olin Marvin (Kansas)
Chairman of the Council
Henry Shaler Williams (Cornell)
Charles Winthrop Crockett (Rensselaer)
Olin Henry Landreth (Union)
John Clayton Tracy (Yale)
Henry Turner Eddy (Minnesota)
Ellery Williams Davis (Nebraska)
William McPherson (Ohio State)
Edgar Fahs Smith (Pennsylvania)
John Edward Hill (Brown)
Samuel Calvin (Iowa)
Vernon Lyman Kellogg (Stanford)
William Emerson Ritter (California)
Henry Edward Crampton (Columbia)
Samuel Wendell Williston (Chicago)
Frederick Charles Newcombe (Michigan)
Morgan Brooks (Illinois)
Charles Sumner Howe (Case)
Carl H Eigenmann (Indiana)
Oscar Milton Stewart (Missouri)
John Bernard Ekeley (Colorado)
Charles Beach Atwell (Northwestern)
Charles Wesley Hargitt (Syracuse)
Victor Lenher (Wisconsin)
Henry Landes (Washington State)

THE COUNCIL FOR 1909–1910

EX-OFFICIIS

President . . . . . Frank Olin Marvin (Kansas)
Vice-President . . . . Francis Cary Caldwell (Ohio State)
Recording Secretary . . . John Clayton Tracy (Yale)
Corresponding Secretary . . Henry Baldwin Ward (Illinois)
Treasurer . . . . . James Furman Kemp (Columbia)

CHAPTER REPRESENTATIVES

Charles Sumner Howe (Case)
Chairman of the Council
Henry Shaler Williams (Cornell)
Charles Winthrop Crockett (Rensselaer)
Olin Henry Landreth (Union)
Edgar Henry Summerfield Bailey (Kansas)
John Clayton Tracy (Yale)
Henry Turner Eddy (Minnesota)
Ellery Williams Davis (Nebraska)
William McPherson (Ohio State)
Edgar Fahs Smith (Pennsylvania)
John Edward Hill (Brown)
Samuel Calvin (Iowa)
Vernon Lyman Kellogg (Stanford)
William Emerson Ritter (California)
Carleton Clarence Curtis (Columbia)
Julius Stieglitz (Chicago)
William Herbert Hobbs (Michigan)
Stephen Alfred Forbes (Illinois)
Carl H Eigenmann (Indiana)
Oscar Milton Stewart (Missouri)
Russell D George (Colorado)
Charles Beach Atwell (Northwestern)
Charles Wesley Hargitt (Syracuse)
Victor Lenher (Wisconsin)
Henry Landes (Washington State)
Arthur Woolsey Ewell (Worcester)
William Kendrick Hatt (Purdue)

THE COUNCIL FOR 1910–1911

EX-OFFICIIS

President . . . . . Henry Turner Eddy (Minnesota)
Vice-President . . . . John Merle Coulter (Chicago)
Recording Secretary . . . Dayton Clarence Miller (Case)
Corresponding Secretary . . Henry Baldwin Ward (Illinois)
Treasurer . . . . . James Furman Kemp (Columbia)

Past Presidents
- Henry Shaler Williams (1895–1901)
- Samuel Wendell Williston (1901–1904)
- Edward Leamington Nichols (1904–1909)
- Frank Olin Marvin (1909–1910)

CHAPTER REPRESENTATIVES

Julius Stieglitz (Chicago)
Chairman of the Council
Henry Shaler Williams (Cornell)
Charles Winthrop Crockett (Rensselaer)
Olin Henry Landreth (Union)
Edgar Henry Summerfield Bailey (Kansas)
John Clayton Tracy (Yale)
Henry Turner Eddy (Minnesota)
Ellery Williams Davis (Nebraska)
William McPherson (Ohio State)
Edgar Fahs Smith (Pennsylvania)
John Edward Hill (Brown)
Samuel Calvin (Iowa)
Guido Hugh Marx (Stanford)
John Campbell Merriam (California)
Carleton Clarence Curtis (Columbia)
William Herbert Hobbs (Michigan)
Stephen Alfred Forbes (Illinois)
Charles Sumner Howe (Case)
Carl H Eigenmann (Indiana)
Oscar Milton Stewart (Missouri)
Russell D George (Colorado)
Charles Beach Atwell (Northwestern)
Charles Wesley Hargitt (Syracuse)
Victor Lenher (Wisconsin)
Henry Landes (Washington State)
Arthur Woolsey Ewell (Worcester)
William Kendrick Hatt (Purdue)
Francis Eugene Nipher (Washington University)

The list of present officers including the Council is printed on page x.

LIST OF PUBLICATIONS BY THE SIGMA XI SOCIETY

Sigma Xi. The Preamble [Signed by nine original student-members of the Society of the Sigma Xi] and Constitution. n. p. n. d. 13 pp. [Ithaca, N. Y., 1887]

Probably the first printed constitution, published before Professor Williams took part. Preamble and Salutatory reprinted here (p. 2).

The Organization of the Scientific Society of the Sigma Xi. Frank Van Vleck, J. Henry Comstock, C. D. Marx, Committee on Publication, Cornell University, Ithaca, N. Y. Andrus and Church, 1888, 28 pp.

Contains list of chapters; discussion of the purpose, history, and organization of Sigma Xi; list of members and officers of various chapters; publications of the Sigma Xi Society.

The Organization of the Scientific Society of the Sigma Xi. Frank Van Vleck, J. Henry Comstock, C. D. Marx, Committee on Publication, Cornell University, Ithaca, N. Y. Andrus and Church, 1888, 40 pp.

Same as preceding except that printed lists of new members are intercalated between pp. 14 and 15 and pp. 16 and 17; and Constitution, paged independently (10 pp.), between Membership Lists and Publications of the Sigma Xi Society.

Constitution of the Society of the Sigma Xi. Revised 1892. E. D. Norton, Printer, [Ithaca, N. Y.] 1892. 16 pp.

Constitution of the Society of the Sigma Xi. Revised and Adopted at Convention, May 18, 1893. Andrus and Church, [Ithaca, N. Y.] 1893. 18 pp.

List of Members of the Society of the Sigma Xi. [Ithaca, N. Y., 1893.] 68 pp.

Officers of the General Society, list of members arranged by chapters, with brief biography and list of publications for each, also with chapter officers.

Constitution of the Society of the Sigma Xi. As amended in Convention, August 29, 1895. Andrus and Church, [Ithaca, N. Y.] 1895. 20 pp.

Sigma Xi. Report on Extension. Presented to the Springfield Convention, Aug. 29, 1895, by the Committee appointed in Convention May 18, 1893. (Extract from the Records. Printed for the Information of the Council and Chapters.) n.p.n.d. [1896.] 4 pp.

Proposed Amendments to the Constitution of the Sigma Xi Society, and to the By-laws of the Alpha Chapter. Report of the Special Committee, presented Feb. 27, 1897. n. p. n. d. 4pp.

Amendments to the Constitution of the Society of the Sigma Xi, recommended by the committee to whom Prof. Comstock's resolution and other resolutions relating to the same subject were referred for consideration and report.

Amendments to the By-Laws recommended for adoption in case the proposed amendments to the Constitution should be adopted by the Society.

(These constitutional amendments were passed unanimously by the Third Convention in August, 1897.)

Sigma Xi. Proceedings of the Third Convention. Including a Summary of the Discussion on Extension. Toronto, August 20, 1897. (Printed by order of the Convention, for the Information of the Chapters.) n.p.n.d. 8 pp.

Sigma Xi. Proceedings of the Fourth Convention. Held at Columbus, August 22, 23, 1899. (Printed by order of the Convention, for the Information of the Chapters.) [Ithaca, N. Y.] n.d. 12 pp.

Constitution of the Society of the Sigma Xi as amended in Convention August 23, 1899. Andrus and Church [Ithaca, N. Y.] 1900. 28 pp.

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CONSTITUTION

OF THE

SOCIETY OF THE SIGMA XI

AS AMENDED DECEMBER 28, 1911

ARTICLE I

NAME AND OBJECT

SECTION 1. The name of this organization shall be the SOCIETY OF THE SIGMA XI; its motto Σπουδῶν Ξυνῶνες Companions in Zealous Research.

SEC. 2. The object of this Society shall be to encourage original investigation in science, pure and applied, by meeting for the discussion of scientific subjects; by the publication of such scientific matter as may be deemed desirable; by establishing fraternal relations among investigators in the scientific centers; and by granting the privilege of membership to such students as during their college course have given special promise of future achievement.

ARTICLE II

CHAPTERS

SECTION 1. Chapters may be established at any institution offering courses of study in those subjects which it is the object of this Society to promote, provided that these courses are substantially equivalent to the usual four-year college course. [See Appendix I, II.]

SEC. 2. Alumni chapters may be established at any place other than an institution of learning on the application of not fewer than five alumni members of collegiate chapters; and such alumni chapters shall have all the powers and privileges of collegiate chapters except as hereinafter provided.

SEC. 3. A petition for a charter for the establishment of a new chapter shall be communicated to the president of the Society, who shall refer it to the chairman of the Council. When the chairman shall have notified the president of the consent of three-fourths of the members of the Council, the president shall then refer the petition to the several chapters in good standing in the Society. No charter shall be granted without the consent of three-fourths of the Council, and of three-fourths of the chapters. The consent of a chapter shall only be given at a chapter meeting. In all chapters whose membership is fifty (50) or less, the quorum required in order to vote upon the admission of new chapters shall be one-half the active membership, and in all other chapters the quorum shall be twenty-five. Three-fourths of the votes cast must be in the affirmative in order to give consent.

Sec. 4. Chapters not reporting their votes on a question submitted by the Council within a period of six (6) months from the time the question is submitted, shall be regarded as having voted in the affirmative on said question. This amendment shall apply only to the votes of chapters on the admission of new chapters.

Sec. 5. A charter for the establishment of a new chapter shall be issued as soon as the president has received notification of the consent of the requisite number of chapters.

Sec. 6. The form of charter shall be as follows:

To whom it may concern: Be it known that a Charter for the establishment of a chapter of the Society of the Sigma Xi at..... is hereby granted to the following persons as Charter Members, conveying to them and their duly elected associates and successors all the privileges conferred by the Constitution of the Society:

.....

.....

In witness whereof the signatures of the President and Secretary and the seal of the Society are hereunto affixed on this the ———— day of ———— in the year of our Lord ————.

Sec. 7. There shall be at least three meetings of each chapter during the college year.

ARTICLE III

MEMBERSHIP

Section 1. The Society shall consist of active, alumni, and honorary members.

Sec. 2 (*a*) The active membership of the chapter at any institution shall be composed of such resident professors, instructors, graduate students, and undergraduates as are members of the Society. The alumni membership of the chapter shall consist of former active members no longer connected with the institution, and such graduates as may be admitted to membership under the provision of Section 5; they shall have all the privileges of active members when present at any meeting of their chapter, except that they shall not vote at the election of new members. Members of any chapter who may become connected with another institution at which there is a chapter shall be entitled to enrollment as active members in the latter, on presenting satisfactory credentials.

(*b*) Membership of alumni chapters shall be composed of alumni members of collegiate chapters, and such graduates of other institutions of learning at which there are no chapters of the Society, as may be elected to membership in the Society by alumni chapters.

Sec. 3. Honorary members shall be scientific workers, who have achieved eminence in some branch of pure or applied science. They shall be entitled to all the benefits of the Society, including the right to attend and take part in conventions and meetings, but not the right of suffrage.

Sec. 4. The following, and no others, are eligible to active membership in a chapter at any institution: (*a*) any professor or instructor of the institution who has shown noteworthy achievement as an original

investigator in some branch of pure or applied science; (*b*) as a non-resident member, any professor, instructor or investigator, connected with a neighboring educational, scientific, or professional institution not having a chapter, who would otherwise be eligible for active membership; (*c*) any resident graduate who has by actual work exhibited an aptitude for scientific investigation; (*d*) any undergraduate in the fourth year class, or else in the class substantially equivalent thereto, who has given promise of marked ability in those lines of work which it is the object of this Society to promote. [See Appendix I, II, VI.]

Sec. 5. Any graduate of the institution of not less than five years standing is eligible to membership on the same conditions as prescribed for professors and instructors in (*a*) of Section 4.

ARTICLE IV

ELECTION OF MEMBERS

Section 1. Active members shall be elected for any chapter by the active membership of such chapter in the manner to be hereinafter defined.

Sec. 2. The election of members, when performed by the active membership as a body, shall be by ballot.

Sec. 3. When the election is according to Section 2 an affirmative vote of three-fourths of the active members present shall be necessary for election.

Sec. 4. When the active membership of a chapter exceeds twenty-four, the election of new members may be accomplished in the following manner:

Nominations shall be made by active members in writing, presenting together with the name of the nominee full testimony of his eligibility signed by the nominator and a seconder. Such written nominations shall be sent to the chapter's recording secretary and by him forwarded to the chapter's president, who shall be chairman *ex officio* of a board of electors, of a membership fixed by the chapter, but which at no time shall be less than five in number. This board shall be selected from the active members by ballot at the annual election of the chapter's officers; vacancies occurring thereafter to be filled by the board itself. A unanimous vote of the above board shall be necessary for election. [See Appendix IV.]

Sec. 5. The number of undergraduates elected during any one year shall not exceed one-fifth of the senior class in the scientific and technical courses.

Sec. 6. Honorary members shall be elected only at a convention of the Society, and by a vote of three-fourths of the delegates present.

ARTICLE V

INITIATION

Section 1. Such persons elected as provided for in Article IV, shall, before they exercise the privileges of membership, be initiated at such time after the election as the by-laws of each chapter shall designate, according to the following form:

Form of Initiation.

Sec. 2 (*a*) The members-elect shall be ushered into the presence of the chapter by a marshal or marshals to be appointed by the president for the occasion.

(*b*) The president or his deputy shall explain the aims and objects of the Society.

(*c*) The president shall next read the following pledge, to which each novitiate shall in turn assent as his name is called: Do you hereby pledge yourself to uphold the principles of the Society of the Sigma Xi, and assume the responsibilities incumbent upon active membership therein?

(*d*) The president then addressing those who have taken the pledge, shall formally pronounce them admitted to membership in the Society of the Sigma Xi, and shall invite them to sign the constitution.

(*e*) Each new member shall affix his signature to the Constitution, and shall then receive from the president the certificate of membership.

(*f*) The president shall present the new members to the chapter.

Sec. 3. Should any member-elect be unavoidably absent from the general initiation, he may, at the pleasure of the chapter, be provided with an opportunity to assent to the pledge given in Section 2 (*c*) and to sign the Constitution, and the president shall then formally admit him to the Society, and present him with the certificate of membership.

Certificates of Membership

Sec. 4. The certificate of membership of this Society shall bear the signatures of the president and secretary of the chapter, and the seal of the Society.

The form of the certificate should be as follows:

The Society of the Sigma Xi by this diploma certifies that ——— —— was on the —— day of —— in the year —— duly elected to membership in the ——— Chapter of the Society of the Sigma Xi, and is fully entitled to all privileges granted by its constitution.

ARTICLE VI

INSIGNIA

Section 1. The badge or symbol to be worn by members of this Society shall be a gold watch-chain pendant, charm, or pin of octagonal shape, bearing the monogram of the Greek letter Sigma, superimposed upon the Greek letter Xi. The monogram may be jewelled, enameled, or embossed as desired. On the reverse side or back of the badge shall be engraved in the upper line the name of the college in which the owner was initiated, together with the date of such initiation. Also on the reverse, in the center shall be placed the chapter symbol in the middle of the numeral of the year in which such chapter was chartered. On the lower line shall be the owner's name, together with the numeral of the class in which he graduated and the name of such college where graduation took place. Provided that the continued use of the older design of the badge shall be optional with the several chapters.

Sec. 2. The colors of this Society shall be electric blue and white.

Sec. 3. The official letter head shall be the monogram of the Society.

Sec. 4. The Seal shall consist of a wreath of laurel, typifying the honorary character of membership in the Society, arranged as an oval enclosing the words "THE SOCIETY OF THE SIGMA XI" at the top, and the motto "Σπουδῶν Ξυνῶνες" at the bottom. These words shall form an inner oval concentric with the first, punctuated with ten stars, and enclosing a field illuminated by the lamp of research. Above the lamp in the field of illumination shall be placed the monogram " ΣΞ," and below it the date of foundation, 1886.

ARTICLE VII

OFFICERS AND COUNCIL

Section 1. The officers of the Society and of each chapter shall be a president, vice-president, a recording secretary, a corresponding secretary, and a treasurer.

Election of Officers

Sec. 2. The officers of the Society shall be elected only at conventions. The terms of office shall be as follows:

President	2 years
Vice-President	2 years
Recording Secretary	2 years
Corresponding Secretary	4 years
Treasurer	2 years

The term of office of the corresponding secretary shall begin at the close of the convention at which he is elected, and continue until the close of the second biennial convention after his election, or until his successor is elected.

The terms of the other officers shall begin immediately after their election, and continue until the close of the next biennial convention, or until their successors are elected.

Sec. 3. The officers of the several chapters shall hold office for similar periods, unless otherwise provided for by the by-laws.

Sec. 4. A plurality of votes shall suffice for the election of any officer.

Duties of Officers

Sec. 5. The duties of the officers of the Society and of the several chapters shall be those which usually pertain to the several offices. In addition thereto the corresponding secretary shall hold and preserve all the papers, except the current records, of the Society or chapter respectively.

The Council

The Council shall be composed of the past presidents of the Society, the officers of the Society, *ex officio,* and an additional member to be elected by each chapter from its active members. The term of an elected member shall be three years; one-third of the elected members shall retire annually. Whenever a vacancy occurs, a successor shall be elected at once by the regular electors for the remainder of the term. The presi-

dent shall name one of the elected members as Chairman and a second member as Secretary to serve to the end of their terms as councilors.

Duties and Powers of the Council

Sec. 7. (*a*) The Council shall be the executive committee of the Society.

(*b*) It shall advise on the general policy of the Society.

(*c*) It shall consider and vote on the granting of charters as provided for in Art. II, Sec. 3, and on the basis of the following recommendations:

1. That the Council, in determining the award of a charter to an institution, should give a close scrutiny to the facilities and opportunities of the institution for the advancement and encouragement of original research in the various branches of science, and to the qualifications of its scientific faculty to accomplish these ends.

2. That the number of distinct branches of science represented by full professors in the institution should be at least five; and these branches should include mathematics, physics, chemistry, biology (some department of it), and engineering (some department of it).

3. That the number of graduate and resident members of the institution required to make the charter membership should be at the least ten; and of these not less than nine should be members of the instructing body; and each person should be adjudged by the Council to be fully worthy of membership in the Society.

(*d*) To meet the expenses of the Society, it shall have full power to levy assessments on all the chapters *pro rata* on the basis of active membership not to exceed fifty cents per active member per year.

(*e*) It shall submit to each chapter for approval all plans for extraordinary appropriations not covered by the previous paragraph (*d*). A three-fourths vote of the chapters shall be required for such approval.

(*f*) It shall nominate officers for the general society and shall notify each chapter of such nominations three months in advance of the time of election. Additional nominations may be made by any chapter or group of chapters, and notice of such nominations should be sent to each chapter six weeks in advance of the time of election.

ARTICLE VIII

CONVENTIONS

Section 1. A regular convention of the Society, consisting of delegates from each chapter, shall be held annually. Special conventions shall be called by the president on the written demand of one-third of the active chapters, and three months' notice of the date and special objects of such convention shall be sent to each chapter. [See Appendix V.]

Delegates

Sec. 2. (*a*) Each chapter in good standing shall be entitled to a representation of three delegates at each convention.

(*b*) The delegates representing any chapter shall be chosen from its active or alumni members; except that in case any chapter shall be un-

able to send its own members, it may appoint members of any other chapter as its representatives.

(*c*) In convention the votes shall be by chapters, each chapter having one vote.

(*d*) The expenses of delegates shall be paid by the chapter sending them.

(*e*) Any vacancy caused by disability of, or resignation of the secretary, corresponding secretary, or treasurer, shall be temporarily filled by an appointment by the president until such office is filled by vote of the convention.

Credentials

Sec. 3. (*a*) The appointment of each delegate shall be certified to by the secretary of the chapter appointing him, in a letter to the committee on credentials of the convention.

(*b*) These credentials shall be presented to this committee in person by the delegate.

Order of Business

Sec. d. (*a*) Appointment by the president of three members to serve as a committee on credentials.

(*b*) Report of committee on credentials.

(*c*) Reading of the proceedings of the last convention.

(*d*) Reading of the president's report.

(*e*) Reading of the treasurer's report.

(*f*) Reading by delegates of the chapter reports.

(*g*) Reading by the secretary of the reports of chapters having no delegates present.

(*h*) Reports of committees.

(*i*) General business.

(*j*) Election of officers.

(*k*) Selection of time and place for the meeting of the next convention.

(*l*) Adjournment of business meeting.

(*m*) Public session.

Quorum

Sec. 5. Delegates from three-fourths of the chapters in good standing in the Society shall constitute a quorum at a convention.

ARTICLE IX

EXPENSES

Section 1. Expenses of the Society which shall be voted by conventions shall be met by an assessment on the several chapters, *pro rata,* on the basis of their active membership.

ARTICLE X

AMENDMENTS

Section 1. This Constitution may be altered or amended at a convention, by a vote of two-thirds of the chapters represented.

Sec. 2. Amendments can be brought before the convention only when recommended by some chapter.

Sec. 3. Notification of any proposed amendments to this Constitution must be sent to each chapter by the corresponding secretary of the Society, at least three months before the time of the convention at which such amendments are to be considered.

APPENDICES

The following appendices consist of extracts from the Society's convention records bearing on matters of general policy and administration. They have regularly been printed in the pamphlet entitled Constitution of the Sigma Xi and have been regarded as expressions of policy by the General Convention for the general advice of individual chapters.

Appendix I

Report of the committee on policy of extension, Convention of 1895

"The policy of the Society in the establishing of new chapters is a matter of vital importance to its future growth and standing.

"The Society was established in 1886 by a few earnest workers in the engineering sciences, as a means of rallying and encouraging those qualities which were deemed of the first importance in their own lines of investigation. It soon became broadened and enlarged to represent the general ideals of highest scholarship in the minds and before the ambitions of every earnest student in any branch of science. It proposed to recognize and elect to its membership those men in our institutions of learning who should exhibit in a marked degree the qualifications of natural endowment and training required for successfully conducting original research in the various branches of science.

"Thus *original research* bears the same relation to Sigma Xi as literary scholarship does to Phi Beta Kappa; and it is believed that the cause of original research, and that part of the higher education which trains the qualities required in scientific pursuits, will be benefited by honoring with election to Sigma Xi those men who during their college course show marked proficiency in these directions.

"In founding new chapters the Society should realize its responsibility and should not grant a charter to every institution that may think itself properly equipped to teach science; but on the contrary great care is necessary in establishing chapters, in order to ensure the proper discrimination of men who are to go forth as representatives of the best results of scientific education in the United States. To attain these ends our policy should be eminently and sternly conservative, while at the same time we should be fully alert and sensitive to the needs of progress in science and education.

"We should not plant the Society in any institution which has not already developed a clear appreciation of the dignity and needs of the scientific education, and a vivid realization of the distinction between scientific and literary ability. In order to make Sigma Xi an honor society it is essential that the men of first rank in the institution be given election, and this will not be possible where Phi Beta Kappa sets the

only standard of excellence, and scientific men are ranked as only second to literary scholars.

"In establishing a new chapter, therefore, we should not take into consideration any claim of advantage to accrue to the institution by such chapter, or any mere desire of individuals to become members of the Society; but in each case we should make sure that we entrust the power of distributing the honor of membership only to such persons and institutions as are capable of giving the education and training necessary to the carrying on of scientific investigation, and as have shown by their organization and equipment that they know the requisite qualifications, and are likely to confer the honor where it properly belongs.

"We should not only look for this active and pervasive spirit of research, but we should also be well assured of the hearty co-operation of the scientific faculty in the establishment of the local chapter, and in maintaining its standing in harmony with the interests of the Society."

Recommendations, Convention of 1895

"In order to secure these ends, upon motion of the chairman *pro tempore,* the following recommendations were adopted, regarding the policy of the Society in establishing new chapters:

"(1) That the Council, in determining the award of a charter to an institution, should give a close scrutiny to the facilities and opportunities of the institution for the advancement and encouragement of original research in the various branches of science, and to the qualifications of its scientific faculty to accomplish these ends.

"(2) That the number of distinct branches of science represented by full professors in the institution should be at least five; and these branches should include mathematics, physics, chemistry, biology (some department of it) and engineering (some department of it).

"(3) That the number of graduate and resident members of the institution required to make up the charter membership should be at least 10; and of these not less than 9 should be members of the instructing body; and each person should be adjudged by the Council to be fully worthy of membership in the Society."

Appendix II

Extract from presidential address, Convention of 1897

"The Society, if rightly guided, may take a place of leadership in the movement now going on to place science on an equality, so far as it deserves it, with literature as an element in the highest liberal education. Science at present owes its place in the higher education rather to its value as a direct means of attaining success in practical ways than to its value in general education. As such, science is to be compared rather with law, medicine or theology—technical fields of study, than with language, literature and philosophy, which are the essential factors of a liberal education.

"The time has come for making a permanent place for science among those latter factors of the modern liberal education. In shaping the future policy and extension of Sigma Xi, this thought, if correct, should be kept in mind: Phi Beta Kappa stands for the traditional conception of

the liberal culture, in which precedence is given to literature and what literature contains. In order to win a permanent place for science in that ideal education, it must be demonstrated that the study of science contributes a factor to this ideal which is not and cannot be furnished by the literary branches. This quality we believe to be found in the *ability and promise of original research.*

"In extending the Society we should realize the importance of holding up this educational position of science for recognition and honor. The practical side of science is felt and appreciated more in the institutions of the West where progress and activity are more vigorous; the value of a broad and liberal education is more deeply appreciated in the East where competition is closer and where the machinery of society and custom is more rigid and exacting. Our ideal for science is broader than either of these. We would exalt the scientific study of things by giving it a place of honor among the humanities of a liberal culture, and we would give new vigor to scholastic study by infusing into it the live practical problems of modern science."

Appendix III

Extract from records, Convention of 1897

"Some discussion arose as to the use of Greek letters for designating the chapters. It was moved and carried that any officer may when he pleases use the ordinary (or geographical) name of a chapter instead of its Greek letter."

Appendix IV

Extract from records, Convention of 1899

"The following resolution was moved and carried: That the Society suggests to the several chapters that when the method of election is employed as provided for in the Constitution, Article IV, Section 4, as amended in 1899, the action of the board of electors be referred to the chapter for formal ratification."

Appendix V

Extract from records, Convention of 1899

"Moved and carried that the regular time of the meeting of the conventions of the Society be the Tuesday evening of the week of meeting of the American Association for the Advancement of Science, and the place be the meeting place of the Association, unless otherwise provided for by the officers of the Society."

Appendix VI

Extract from address of President Williston, Convention of 1902

"The object of the Society is to weave a closer bond between those actuated by the desire of adding to the world's knowledge in science, or of making the world better because of science; to encourage the student in the pathway he has chosen; to support by mutual counsel;

and to remove obstacles by a union of strength—in other words, to coordinate, to unify and to promote the spirit of scientific research in the University.

"The pathways of science are already so diverse that we catch but brief glimpses of each other through the tangled growth of unexplored forest—we are constantly forgetting in our own zeal that there are others near by who are as zealous as we, and there seems to be no better way in the University by which we may be occasionally brought into the clearings for mutual advice. As teachers, the one chief bond between us is the training of the young in science—and what is the good of all our labor unless we help others to do better than we have done? It is the mission of the Sigma Xi to draw this bond more closely, to let us not forget that we are teachers above all else.

"Permit me, therefore, to urge upon all the chapters the greater development of the educational and social side of our fraternity . . . I believe that the students should be elected to membership as early as possible, and be given the privileges of companionship and counsel while yet they are of most benefit to them . . . Such a custom is almost sure to bring about greater enthusiasm among both students and faculty, a more full attendance at the meetings, and what is best of all, permits a closer personal relationship between instructors and students . . . .

"The Society has served a most useful purpose in bringing into closer relationships not only those who are interested in the discovery of new truths, but also those who seek the new application of old truths. I believe that the full and sympathetic association of the students in all branches of scientific work should be continued—more indeed now than ever before, since the trend of college education is to differentiate early along the lines of professional education. The Society should be further extended among our chief technological schools, schools that are destined to exert a still more powerful influence in the future."

Appendix VII

Extract from records, Convention of 1911

Instructions to the Council regarding admission of chapters: that at any petitioning institution there shall be a satisfactory and continuous output of research work.

THE CHAPTERS OF THE

SOCIETY OF THE SIGMA XI

ABBREVIATIONS

Used with names given under chapter headings

A Elected as alumni member of chapter
C Charter member of chapter
F Faculty member of chapter
G Elected as graduate student member of chapter
U Elected as undergraduate student member of chapter
1907 etc., Year of election to membership in chapter
* Biography in American Men of Science
† Biography in Who's Who in America
( ) Indicates membership in another chapter, the name of which is included within the parentheses

ALPHA CHAPTER

Cornell University, Ithaca, New York

Parent Chapter Founded November, 1886

HISTORICAL SKETCH

Sigma Xi arose out of the desire for comradeship in a small group of earnest and scholarly university men, whose tastes and training were along engineering and scientific lines and who found their intellectual ideas not altogether in sympathy with the old established ideals of literary scholarship. They were beginning to realize that the American college is but the culmination of the disciplinary training of the high school, and were quite unconsciously formulating for American education the true university spirit. Although effort had often been put forth to establish an intercollegiate, scientific society, such a body did not come into actual existence until the founding of the Alpha Chapter of this organization.

In the spring of 1886, Mr. William A. Day, a member of the senior class in the Sibley College of Mechanical Engineering at Cornell, suggested the idea of a scientific Phi Beta Kappa to Professor Van Vleck of Sibley College. It is on record that the conversation took place as the two were climbing Buffalo Hill and that before they parted they went to Mr. Van Vleck's room and outlined an organization and a plan of campaign. Seven other members, namely: William H. Riley, Harry E. Smith, William A. Mosscrop, Charles B. Wing, John Knickerbocker, John J. Berger, and Edwin N. Sanderson, of the classes of 1886 and 1887, were taken into their confidence. Of the nine original members five were in the course of mechanical and four in that of civil engineering. One of them had previously studied at Stevens Institute of Technology and at Johns Hopkins University, and three at Rensselaer Polytechnic Institute.

A meeting was soon held at which a temporary organization was effected, Mr. Van Vleck being chosen president.* Although not on record officially, it is, however, generally understood that the late Robert Henry Thurston, then Director of Sibley College, gave much encouragement and advice.

It seems that the idea of these nine projectors did not extend beyond the engineering departments. It so happened that Professor Henry Shaler Williams, at that time head of the department of Geology, was planning the organization of a similar society in his own branch of science. A conference was soon brought about at which Professor Williams successfully urged the formation of a single society to include all

*The minutes of this and of the several subsequent meetings in which the organization was perfected are still in the possession of the Alpha Chapter, and form a part of its permament records.

departments of pure and applied science. Because of this effort, Professor Williams is generally regarded as one of the ten founders of Sigma Xi, these being symbolized by the ten stars on the seal.* The organization now being in permanent form, Professor Williams was, at the sixth meeting, held May 20, 1887, elected the First President of the Society. The other officers were: Vice-President, F. Van Vleck; Recording Secretary, C. D. Marx; Corresponding Secretary, C. B. Wing; Treasurer, A. W. Smith.

In shaping their constitution these founders sought to emphasize the spirit which drew them together rather than the different aims by which they were personally distinguished. This was the spirit of independent investigation and research—of seeking out and knowing for oneself, as contrasted with learning the traditions of the past. It was a formal embodiment of the "zeitgeist" whose eyes are turned forward, not backward. It is a significant fact that in making elections of new members, the prominent qualification has been, not the acquired knowledge of the candidate, but the shown ability to learn and to progress. Such are true university men, whether they carry on their investigations inside university walls or outside in the busy world of practical life. Although the founders were not fully aware of it, the result has shown that they stood at the parting of the ways for higher education in America.

During the academic year of 1886-7 twelve professors from the various scientific departments, four resident graduates, nine non-resident alumni, and six members of the graduating class were elected. A provisional constitution, which provided for the establishment of other chapters and for a biennial convention, was adopted. Four chapters in other institutions were organized, two of which are now extinct.†

In commencement week of 1887, Professor H. S. Williams delivered the inaugural address, entitled The Ideal Modern Education, in which he set forth the aims and objects of the new society. From the time of its organization until the first formal convention (1893) the Alpha Chapter was the controlling body.

The first convention met in the architectural lecture room of Cornell University, May 17, 1893, under the presidency of Professor E. L. Nichols. Delegates were present from four chapters, viz.: Cornell, Union, University of Kansas, and Rensselaer Polytechnic Institute. The essential work of this meeting was the adoption, with slight modifications, of the constitution previously prepared by the Alpha Chapter.

Up to the time of this first convention, the history of the society was largely a history of the Alpha Chapter. Since then, however, the Alpha Chapter has been only one of an ever increasing number of chapters, with a history that presents no especially interesting details. Its membership, active and alumni, is nearly one thousand. It has had, up to the present time (1911), over one hundred and forty meetings, including the initial meetings of organization, previously mentioned. A large number of these meetings have been lectures to which the general public were invited.

(*) See Art. VI, §4 of the Constitution, p. 49.

(†) Those at Stevens Institute of Technology, Hoboken, N. J., and Rutgers College, New Brunswick, N. J.

At the time Sigma Xi was founded tradition and authority had been the dominant factors in estimating the quality of scholarship. As our Society has grown, and has become a prominent factor in most of our universities, men have come to know that knowledge of the present is far more important than tradition—that individual discernment, power of initiative, and honesty, surpass all authority in the equipment of a scholar of the new sort.

This characteristic of the Sigma Xi spirit is, however, to be distinguished from the "commercial" tendency which was evident in the sturdy engineering students of that time, and the Society stood for intellectual energy rather than sordid ambition.

Although the founders were preparing to use their intellectual training and equipment in the practical affairs of life, and expected to reap personal benefit from such application, they realized that success was to be the outcome of properly applied energies, and that nature was not to be conquered by any kind of sophistry, but by the application of skill and energy in discovering and utilizing her boundless resources. The spirit which dominated in the founding of Sigma Xi, already is dominating the higher universities of America, and the scholar of this new type is taking his place of leadership in all the progress of the new era.

H. S. W. AND J. McM.

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President's Address to the Cornell Chapter of the Society of the Sigma Xi. Veranus A. Moore, B. S., M. D., Professor of Comparative Pathology and Bacteriology, Cornell University. June 6, 1903. pp. 13.

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By-Laws of the Alpha Chapter of the Society of the Sigma Xi. (As revised 1897) pp. 7. n. p. n. d.

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Sigma Xi. Resident Members of the Cornell Chapter 1911-1912. pp. 4. n. p. n. d.

OFFICERS FOR 1911–12

President.....Heinrich Ries
Vice-President.....Ernest Blaker
Recording Secretary.....Floyd Karker Richtmyer
Corresponding Secretary.....James McMahon
Treasurer.....William Albert Riley
Councilor.....Henry Shaler Williams

MEMBERSHIP ROLL

Fred Lee Ackerman — U 1901 — Edmeston, N. Y
Architect

Arthur Adams — U 1901 — Halifax, N. S.
Consulting Engineer

Edward Thomas Adams — U 1894 — Palo Alto, Cal.

Oscar Perry Akers — G 1904* — Meadville, Pa.
Professor of Mathematics, Allegheny College

Calvin Dodge Albert — F 1908 — Ithaca, N. Y.
Assistant Professor of Machine Design, Cornell University

Maximilian Claude Albrech — U 1906 — Pittsburgh, Pa.
Chief Chemist, Food and Drug Inspection Laboratory

Charles Anderson Alexander — U 1897 — Batavia, N. Y.
Mechanical Engineer and Contractor

Anna Allen (Mrs Albert Hazen Wright) — U 1909 — Ithaca, N. Y.
Assistant in Zoology, Cornell University

Arthur Augustus Allen — U 1907 — Ithaca, N. Y.
Instructor in Vertebrate Zoology, Cornell University

Caroline Louise Allen (Mrs Frederic G Dunham) — U 1904 — Albany, N. Y.

Frank Allen — G 1900* — Winnipeg, Canada
Professor of Physics, University of Manitoba

William Daniel Allen — U 1906 — Silver Lake, Col.
Manager, Arawatz Mining Company

William Gordon Allen — U 1904 — Seneca Falls, N. Y.
Salesman, Gould's Manufacturing Company

William Ambler — U 1900 (Case CF 1904) — Cleveland, Ohio
The Ambler Realty Company

Adeline Sarah Ames — G 1911 — Normal, Neb.

Walter Otto Amsler — U 1895 — Pittsburgh, Pa.
Scientist

Leroy Anderson — U 1902* (California F 1908) — Berkeley, Cal.
Professor of Agriculture, University of California

Ross Peter Anderson — G 1910 — Ithaca, N. Y.
Instructor in Chemistry, Cornell University

William Anderson G 1911 Houghton, Mich.
Instructor in Physics and Electrical Engineering, Michigan College of Mines

Frank Angell F 1892*† (Stanford CF 1902) Palo Alto, Cal.
Professor of Psychology, Leland Stanford Junior University

William Arnold Anthony F 1887*†
(Deceased 1908)

Bunrokn Arakawa G 1909 Tokio, Japan
Professor of Engineering

Alexander Floyd Armstrong U 1901 Philadelphia, Pa.
Civil Engineer, Sun Company

Joseph Charles Arthur G 1888*† Lafayette, Ind.
Professor of Botany, Purdue University

George Francis Atkinson G 1888*† Ithaca, N. Y.
Professor of Botany, Cornell University

Herbert Sidney Austin U 1907 Elmhurst, Long Island, N. Y.
Engineer

William Eugene Austin G 1895 New York City
Architect

Augustine Ridenour Ayers U 1899 Cleveland, Ohio
Mechanical Engineer, Lake Shore and Michigan Southern Railroad Company

Hiram Douthitt Ayres G 1904 Ithaca, N. Y.
Instructor in Physics, Cornell University

Lee Seldon Backus U 1906 (Missouri F 1908) Columbia, Mo.
Instructor in Veterinary Science, University of Missouri

Florence (Winger) Bagley G 1901* Urbana, Ill.
(Mrs William Chandler Bagley)

William Chandler Bagley G 1900*† (Illinois F 1910) Urbana, Ill.
Director of School of Education, University of Illinois

Liberty Hyde Bailey F 1891*† Ithaca, N. Y.
Dean, College of Agriculture, Cornell University

Alvin Walter Baird U 1905 Portland, Ore.
Lecturer in Surgery, University of Oregon

John Wallace Baird G 1902* (Illinois F 1906) Worcester, Mass.
Professor of Psychology, Clark University

Linnaeus Earl Baker U 1904 Lafayette, Ind.
Gas Power Specialist

Homer Gage Balcom U 1897 New York City
Balcom and Darrow, Consulting Engineers

Caroline Willard Baldwin G 1895 Palo Alto, Cal.
(Mrs Charles Theobald Morrison)

Wesley Manning Baldwin U 1907* New York City
Instructor in Anatomy, Cornell Medical College

Albert Ball U 1901 New York City
Teacher, Cooper Union

Norman Frank Ballantyne U 1893 Westmount, Que.
Designer

Nathan Banks U 1889*† Washington, D. C.
Assistant Entomologist, Bureau of Entomology

William Nichols Barnard F 1905* Ithaca, N. Y.
Professor of Steam Engineering, Cornell University

Fred Asa Barnes F 1906 Ithaca, N. Y.
Assistant Professor of Railroad Engineering, Cornell University

Lelia (Harvie) Barnett U 1901 Columbus, Ohio
(Mrs Samuel Jackson Barnett)

Samuel Jackson Barnett G 1897* (Stanford CF 1902) Columbus, Ohio
Assistant Professor of Physics, Ohio State University

Jesse Edmund Barney U 1899 Pittsburgh, Pa.
Engineer, Westinghouse Electric and Manufacturing Company

John Henry Barr G 1887*† New York City
Consulting Engineer, Union Typewriter Company

Samuel Henry Barraclough G 1894 Sydney, N. S. W.
Professor of Engineering, University of Sydney

John Hall Barron U 1906 Nunda, N. Y.
Agriculturist

Mortier Franklin Barrus G 1910 Ithaca, N. Y.
Assistant Professor of Plant Pathology, Cornell University

Elias Hudson Bartley G 1908*† Brooklyn, N. Y.
Professor, Long Island College Hospital

Calvin Lewis Barton U 1899 New York City
Engineer and Contractor, McHarg-Barton Company

Isaac M Baum U 1903 Mexico, Mex.
Manager, Mexican National Gas Company

John Andrew Baumgardner U 1905 Flint, Mich.
Director of Laboratory, Buick Motor Company

Agnes Sime Baxter G 1894 Columbia, Mo.
(Mrs Albert Ross Hill)

Willard Beahan A 1888 Cleveland, Ohio
First Assistant Engineer, Lake Shore and Michigan Southern Railroad

Alvin Casey Beal G 1911 Ithaca, N. Y.
Assistant Professor of Floriculture, Cornell University

Bergie Barrie Beckett U 1904 Seattle, Wash.
Manager, Seattle Office, Pierson, Roeding and Company

Elias Hyrum Beckstrand G 1901 Salt Lake City, Utah
Professor of Mechanical Engineering, University of Utah

Frederick Bedell G 1891*† Ithaca, N. Y.
Professor of Applied Electricity, Cornell University

Raynor Monroe Bedell U 1902 Montclair, N. J.
Engineer

James Munsie Bell G 1903* Chapel Hill, N. C.
Associate Professor of Chemistry, University of North Carolina

Ruby Green Bell F 1905 (Stanford G 1904) Ithaca, N. Y.
(Mrs Albert William Smith)

Mark Anthony Beltaire, Jr U 1902 Danbury, Conn.
Operating Department, Railway Steel Spring Company

Centennial Harry Benedict U 1897 Lake Linden, Mich.
Engineer, Calumet and Hecla Mining Company

Charles William Bennett G 1910 Ithaca, N. Y.
Instructor in Chemistry, Cornell University

Gordon Mansir Bentley G 1901* Knoxville, Tenn.
State Entomologist, University of Tennessee

Isaac Madison Bentley F 1898* Ithaca, N. Y.
Assistant Professor of Psychology, Cornell University

Wilton Bentley U 1898 Chicago, Ill.
President, Bentley, Snyder Company

John Robert Benton F 1902* Gainesville, Fla.
Professor of Physics and Electrical Engineering, University of Florida

John Jacob Berger CU 1886
(Deceased 1899)

John McWilliams Berry U 1897 Albany, N. Y.
Physician and Surgeon, Albany Hospital

Maxwell Rufus Berry U 1903 Detroit. Mich.
President, Electric Products Company

Morphy Edison Berry U 1904 East Orange, N. J.
Chief Inspector, Western Electric Company

Lyman Austin Best U 1888 Brooklyn, N. Y.
Educator

Cornelius Betten G 1905* Lake Forest, Ill.
Professor of Biology, Lake Forest University

Hermann Michael Biggs A 1888*† New York City
Medical Officer, City Department of Health

Wheeler Scott Bishop U 1905 Goldyke, Nev.
Metallurgist

Frank Edward Bissell G 1888 Akron, Ohio
Chief Engineer, Akron, Canton and Youngstown Railroad

George Welton Bissell U 1888*† East Lansing, Mich.
Dean of Engineering, Michigan Agricultural College

James Adrian Bizzell G 1903* Ithaca, N. Y.
Assistant Professor of Soil Technology, Cornell University

John Alexander Black G 1908 Ithaca, N. Y.
Assistant in Chemistry, Cornell University

Edwin Mortimer Blake G 1900* New York City

Ernest Blaker G 1899* Ithaca, N. Y.
Assistant Professor of Physics, Cornell University

Robert Byron Blakeslee U 1899 Du Bois, Pa.
Superintendent

Nora Stanton Blatch U 1905 New York City
(Mrs Lee De Forest)

George Frederick Blessing F 1907 Swarthmore, Pa.
Professor of Engineering, Swarthmore College

Julia Norum Blight U 1902 Batavia, N. Y.
Instructor in Mathematics, High School

Bryant Harmon Blood U 1889 Newark, N. J.
Superintendent, The Celluloid Company

Louis Frederick Blume G 1909 Pittsfield, Mass.
Engineer, General Electric Company

Donaldson Bodine G 1894* Crawfordsville, Ind.
Professor of Zoology, Wabash College

Carl Winter Boegehold U 1906 Holyoke, Mass.
Mechanical Engineer, Deane Steam Pump Company

Elizabeth May Bolger U 1906 Philadelphia, Pa.
(Mrs Oswald Milligan)

August Bostroem, Jr U 1906 New York City
Electrical Inspector, U. S. Navy Yard

Anna Botsford A 1888*† Ithaca, N. Y.
(Mrs John Henry Comstock) Lecturer in Nature Study, Cornell University

George John Bouyoucos G 1911 East Lansing, Mich.
Research Assistant, Michigan Agricultural College

Charles Herbert Boxmeyer G 1901 Detroit, Mich.
Physician

James Ellsworth Boyd G 1896* (Ohio CF 1898) Columbus, Ohio
Professor of Mechanics, Ohio State University

Paul Prentice Boyd G 1911 Hanover, Ind.
Professor of Mathematics, Hanover College

Elisabeth Harwood Boynton U 1889 Washington, D. C.
(Mrs Frederick Vernon Coville)

Margaret Fursman Boynton U 1895 (Illinois A 1909) Urbana, Ill.
(Mrs Phineas Lawrence Windsor)

James Chester Bradley U 1906* (California G 1907) Ithaca, N. Y.
Assistant Professor of Entomology, College of Agriculture, Cornell University

John Casper Branner A 1887*† (Stanford CF 1902) Palo Alto, Cal.
Professor of Geology, Leland Stanford Junior University

Percy Lewis Braunworth U 1906 Trenton, N. J.
Farley and Braunworth, Consulting Engineers

Clarence Edward Breckenridge U 1900 Flushing, N. Y.
Mechanical Engineer

Frank Breed U 1911 Ithaca, N. Y.
Student, Cornell University

John Cromwell Breedlove U 1902 Tacoma, Wash.
Assistant Engineer, Northern Pacific Railway Company

Herman George Breitwieser U 1902 Brooklyn, N. Y.
Electrical Engineer

Charles Edward Brewer G 1900* Wake Forest, N. C.
Professor of Chemistry, Wake Forest College

Thomas Rowland Briggs G 1911 Ithaca, N. Y.
Assistant Instructor in Chemistry, Cornell University

George Mackenzie Brill U 1891 Chicago, Ill.
Brill and Gardner, Construction Engineers

John Cornelius Brocksmith U 1899 Cedar Rapids, Ia.
Brocksmith Laboratory, Storage Batteries, etc.

Grover Charles Brown U 1906 Sagua La Grande, Cuba
Assistant Engineer, Ruiz and Taylor, Contractors

Harry Philip Brown G 1909 Ithaca, N. Y.
Instructor, Cornell University

Mortimer Jay Brown G 1911 Niagara Falls, N. Y.

Newton Henry Brown G 1898 (Ohio CF 1898) Austin, Tex.
Professor of Electrical Engineering, University of Texas

Oliver W Brown G 1898* (Indiana F 1906) Bloomington, Ind.
Associate Professor of Chemistry, Indiana University

Arthur Wesley Browne G 1903* Ithaca, N. Y.
Professor of Inorganic and Analytical Chemistry, Cornell University

Alice Henrietta Bruère U 1895 New York City
Teacher of Physics, Wadleigh High School

Clement Benjamin Brun U 1890 New York City
Architect

Alexander Watson Buchanan U 1887 Los Angeles, Cal.
Secretary and General Manager, American Conduit Company

Henry Hine Buckingham G 1904 Hysham, Mont.
Farmer

Albert George Frederick Buehler U 1911 Ithaca, N. Y.
Instructor in Civil Engineering, Cornell University

Christian Rudolf August Bües U 1906 Lima, Peru
General Manager

Marguerite Jane Bullard U 1902 Putnam, Conn.
Physician, Day Kimball Hospital

Charles Eli Burgoon G 1906 New York City
Chief Engineer, U. S. Custom House

Samuel Howard Burnett G 1902* Ithaca, N. Y.
Assistant Professor of Pathology, Cornell University

Eleanor Irene Burns U 1904 Constantinople, Turkey
Professor of Physics, American College for Girls

Herbert Farwell Burrage U 1892
(Deceased 1906)

Edward Parker Burrell U 1898 Cleveland, Ohio
Warner and Swazey Company

Austin Burt U 1900 Waterloo, Ia.
Engineer and General Superintendent, Citizens Gas and Electric Company

Frederick Carl Busch A 1903* Buffalo, N. Y.
Physician and Professor of Physiology, University of Buffalo

Fred Forbes Bushnell G 1902 Middletown, Conn.
Veterinarian

Bert S Butler U 1905* Washington, D. C.
Assistant Geologist, U. S. Geological Survey

Ormond Butler G 1909 Los Gatos, Cal.

Edward Caldwell A 1888 New York City
Treasurer, McGraw-Hill Book Company

Francis Cary Caldwell U 1890* (Ohio CF 1898) Columbus, Ohio
Professor of Electrical Engineering, Ohio State University

George Chapman Caldwell F 1887†
(Deceased 1907)

Frank Kenneth Cameron G 1895*† Washington, D. C.
Soil Chemist, Bureau of Soils, U. S. Department of Agriculture

Allan Harry Candee U 1906 Milwaukee, Wis.
Sales Engineer, H. W. Johns-Manville Company

William Cargill Capron U 1908 Ithaca, N. Y.
Instructor in Engineering, Cornell University

Fred Wallace Card G 1893 (Nebraska CF 1897) Sylvania, Pa.
Farm Management

Samuel Peaslee Carll U 1895 Parkersburg, W. Va.
Oil Business

Frank Carney G 1905* Granville, Ohio
Professor of Geology, Denison University

Clinton Arthur Carpenter U 1905 Chicago, Ill.
Electrical Engineer, D. H. Burnham and Company

Rolla Clinton Carpenter F 1891*† Ithaca, N. Y.
Professor of Experimental Engineering, Cornell University

Leonard Jarvis Carr U 1901
(Deceased 1902)

William Massey Carruth U 1901* Clinton, N. Y.
Assistant Professor of Mathematics, Hamilton College

Effie Adeline Carter U 1898 Brooklyn, N. Y.
Teacher, Girls' High School

Walter Buckingham Carver F 1909 Ithaca, N. Y.
Assistant Professor of Mathematics, Cornell University

Hector Russell Carveth U 1898* Niagara Falls, N. Y.
Works Manager, Niagara Electrochemical Company

George Whitman Casey A 1888 Philadelphia, Pa.
Architect

George Walter Cavanaugh F 1911 Ithaca, N. Y.
Professor of Chemistry, Cornell University

Frank Wilbut Chamberlain U 1906 Burlington, Vt.
Veterinary

Ralph Vary Chamberlin G 1903* Salt Lake City, Utah
Professor of Zoology, University of Utah

Emile Monnin Chamot U 1891* Ithaca, N. Y.
Assistant Professor of Sanitary Chemistry and Toxicology, Cornell University

Albert Hotchkiss Chandler U 1902 New York City
Assistant Engineer, Topographical Bureau

Horace Edward Chandler F 1907 (Brown G 1906) Weihsien, China
Instructor in Physics, Shantung Christian University

Richard Edward Chandler G 1897 Stillwater, Okla.
Dean of Engineering, Oklahoma Agricultural and Mechanical College

Carlton Thorp Chapman U 1900 Rochester, N. Y.
Treasurer and Engineer, Rochester Structural Steel Company

Vera Katharine Charles U 1903 Washington, D. C.
Scientific Assistant, U. S. Department of Agriculture

Clement Dexter Child G 1894*† Hamilton, N. Y.
Professor of Physics, Colgate University

Irving Porter Church F 1887*† Ithaca, N. Y.
Professor of Applied Mechanics and Hydraulics, Cornell University

William Wilberforce Churchill U 1889
(Deceased 1910)

Ella Maude Cipperly U 1904 Wellesley, Mass.
(Mrs Earl McKay Wiegand) Instructor in Botany, Wellesley College

Charles Frederick Clark G 1906 Ithaca, N. Y.
Assistant Agronomist in Experiment Station, Cornell University

Dean Clark U 1899 Syracuse, N. Y.
Operative Manager, Smith Premier Typewriter Company

Ida Adella Ross Clark U 1900 Rome, N. Y.
(Mrs J Edwin Clark)

John Powell Clark U 1906 New York City
Assistant Teacher, Stuyvesant High School

Judson Freeman Clark G 1899 Vancouver, B. C.
Forest Engineer

Tracy Earl Clark G 1894 Brooklyn, N. Y.
Physician, Professor of Physiology, Brooklyn College of Pharmacy

William Alexander Graham Clark U 1900 Washington, D. C.
Textile Expert, Tariff Board

Edgar Whitney Clarke U 1905 Johnstown, Pa.
Assistant Superintendent, Mechanical Department

Agnes Mary Claypole G 1894*† Berkeley, Cal.
(Mrs Robert Orton Moody)

Edith Jane Claypole G 1893*† Pasadena, Cal.
Physician

William Weber Coblentz G 1901* Washington, D. C.
Assistant Physicist, Bureau of Standards, U. S. Department of Agriculture

John Eliot Coit G 1906* Berkeley, Cal.
Associate Professor of Pomology, University of California

Orin B Coldwell U 1902 Portland, Ore.

Janet (Sheldon) Collier U 1894 Providence, R. I.
(Mrs Theodore Frelinghuysen Collier)

Willis Collins U 1895 Milwaukee, Wis.
Secretary and Superintendent, Sivyer Steel Casting Company

Julia Trueman Colpitts G 1900 Ames, Ia.
Assistant Professor of Mathematics, Iowa State College

Robert Coltman, Jr U 1906 Washington, D. C.
Superintendent of Construction of Washington Cathedral

Anna Botsford Comstock A 1889*† Ithaca, N. Y.
(Mrs John Henry Comstock) Lecturer on Nature Study, Cornell University

Charles Worthington Comstock F 1895* Denver, Col.
State Engineer of Colorado

John Henry Comstock CF 1886*† Ithaca, N. Y.
Professor of Entomology, Cornell University

Theodore Bryant Comstock A 1887*† Los Angeles, Cal.
Chief Engineer, Board of Public Utilities

George Dyer Conlee G 1908 Binghamton, N. Y.
General Superintendent, Binghamton Gas Works

Harold Joel Conn G 1910 Geneva, N. Y.
Associate Bacteriologist, Agricultural Experiment Station

John Sayler Coon A 1888*† Atlanta, Ga.
Professor Mechanical Engineering, Georgia School of Technology

Ralph Stuart Cooper U 1903 New York City
Eastern Sales Manager, Independent Pneumatic Tool Company

Clement Austin Copeland U 1896 Oakland, Cal.
Consulting Electrical Engineer

Charles Lorin Cornell U 1889 New York City
Treasurer, Niles Bement Pond Company, Pratt and Whitney Company

Eugene Rollin Corson A 1888*† Savannah, Ga.
Physician and Surgeon, Savannah Hospital

Grant Adelbert Covell U 1887 Corvallis, Ore.
Dean, School of Engineering, Oregon Agricultural College

Elisabeth Boynton Coville U 1889 Washington, D. C.
(Mrs Frederick Vernon Coville)

Frederick Vernon Coville U 1887*† Washington, D. C.
Botanist, U. S. Department of Agriculture

Luzerne Coville A 1892* Ithaca, N. Y.
Physician

Harriet (Lyndon) Cowell U 1906 Philadelphia, Pa.
(Mrs Arthur Westcott Cowell)

Mary (Nichols) Cox G 1896 Chappaqua, N. Y.
(Mrs John Cox, Jr)

Warren Moore Craft G 1894 New York City
Engineer, American Telephone and Telegraph Company

John Craig F 1901*† Ithaca, N. Y.
Professor of Horticulture, Cornell University

James Ray Craighead U 1906 Schenectady, N. Y.
General Electric Company

John Jay Crain U 1896 Quincy, Mass.
Electrical Engineer, Fox River Shipbuilding Company

L D Crain G 1902 Fort Collins, Col.
Hardware Merchant

Charles Lee Crandall F 1887*† Ithaca, N. Y.
Professor of Railway Engineering and Geodesy, Cornell University

Albert Sears Crane U 1891 New York City
Hydraulic Engineer, J. G. White and Company

Albert Cushing Crehore G 1892* Yonkers, N. Y.
Electrical Engineer

Eugene Casson Crittenden U 1905 Washington, D. C.
Assistant, Bureau of Standards

Louis Josephus Cross G 1910 Ithaca, N. Y.
Instructor in Chemistry, Cornell University

Gilbert Crossman U 1898 New York City
Inspection Engineer, Western Electric Company

Marshall Baxter Cummings G 1909 Burlington, Vt.
Professor of Horticulture, University of Vermont

Noah Cummings U 1894 New York City
Civil Engineer

Henry Platt Cushing A 1908*† Cleveland, Ohio
Professor of Geology, Western Reserve University

Blin Sill Cushman U 1893 Ithaca, N. Y.
Chemist, Cayuga Lake Cement Company

Ida (Hill) Dalton U 1890 Schenectady, N. Y.
(Mrs William Dalton)

Lewis Andrew Darling F 1907 (Stanford G 1904) Grand Rapids, [Mich.
Chief Engineer and Works Manager

Philip Jackson Darlington U 1891 Hartford, Conn.
President, The Roto Company

John Percival Davies U 1903 Ebbw Vale, Manchester, England

George Jacob Davis U 1902 (Wisconsin CF 1906) Madison, Wis.
Assistant Professor of Hydraulic Engineering, University of Wisconsin

Kary Cadmus Davis G 1900* New Brunswick, N. J.
Professor of Agronomy, New Jersey College of Agriculture

Lynn Leroy Davis U 1896 Buffalo, N. Y.
Assistant Engineer, U. S. Engineer Office, War Department

Clarence Augustus Dawley U 1904 New York City
Consulting Engineer

William Asher Day CU 1886 Chicago, Ill.
Manager, Chicago Office, Erie City Iron Works

Winterton James Day U 1897 Schenectady, N. Y.
Salesman, General Electric Company

Henry Pelouze de Forest A 1910† New York City
Physician

Nora Stanton (Blatch) De Forest U 1905 New York City
Engineer and Chief Draftsman, Radley Steel Construction Company

Van Ness De Lamater U 1900 Plainfield, N. J.
Mechanical Engineer, Rushmore Dynamo Works

Thomas G Delbridge F 1904 (Union G 1903) Ithaca, N. Y.
Instructor in Chemistry, Cornell University

Louis Munroe Dennis F 1892*† Ithaca, N. Y.
Professor of Inorganic Chemistry, Cornell University

Boyd Coe Dennison F 1908 Pittsburgh, Pa.
Assistant Professor of Engineering, Carnegie Technical Schools

Orville Adelbert Derby A 1887*† Rio de Janeiro, Brazil
Director, Servico Geologico e Mineralogico

Max Dercum G 1898
(Deceased 1898)

Herman Diederichs U 1897 Ithaca, N. Y.
Professor of Experimental Engineering, Cornell University

Arvin J Dillenbeck U 1911 Johnstown, Pa.
Civil Engineer, The Cambria Steel Company

Howard Dingle U 1905 Cleveland, Ohio
District Manager, Crocker-Wheeler Company

Frank Stillman Dix U 1903 Brooklyn, N. Y.
Draftsman and Engineer

De Forest Halstead Dixon U 1896 Brooklyn, N. Y.
Contractor

Martha Doan G 1896 Poughkeepsie, N. Y.
Instructor in Chemistry, Vassar College

Norman Dodge U 1900 New York City
Lumber Dealer

Harold Lukens Doolittle U 1906 Los Angeles, Cal.
Assistant Engineer, Southern California Edison Company

Herbert Grove Dorsey G 1906* New York City
Research Engineer, Western Electric Company

Maxwell Jay Dorsey G 1910 Minneapolis, Minn.
Research in Fruit Breeding, University of Minnesota

Gertrude Elisabeth Douglas G 1907 Lynchburg, Va.
Instructor in Biology, Randolph-Macon Woman's College

John Frederick Howard Douglas G 1910 Ithaca, N. Y.
Instructor in Electrical Engineering, Cornell University

Edmund Miller Doyle G 1896 San Francisco, Cal.
Superintendent, Cadillac Motor Car Company

William Allen Drake U 1906 Chicago, Ill.
The Brownell Company

Mervin Dresbach F 1906* (Ohio F 1902) Ithaca, N. Y.
Assistant Professor of Physiology, Cornell University

Elmer Reginald Drew G 1903 (Stanford F 1906) Palo Alto, Cal.
Assistant Professor of Physics, Leland Stanford Junior University

William Russel Dudley F 1887*† (Stanford CF 1902) Palo Alto, Cal.
Professor of Systematic Botany, Stanford University

Edward Allen Duffy G 1904 Chrome, N. J.
U. S. Smelting and Refining Company

Benjamin Minge Duggar F 1897*† (Missouri CF 1905) Ithaca, N. Y.
Professor of Plant Physiology, Cornell University

Richard Gustavus Dukes U 1896 (Case CF 1904) Lafayette, Ind.
Professor of Mechanics, Purdue University

Harry Lee Duncan U 1896 New York City
Patent Lawyer, Duncan and Duncan

Charles Dunn U 1893 New York City
Mechanical Engineer

Albert Cyrus Durand U 1906 Ithaca, N. Y.
Physician

Elias Judah Durand U 1893* (Missouri F 1910) Columbia, Mo.
Assistant Professor of Botany, University of Missouri

William Frederick Durand F 1892*† (Stanford F 1904) Palo Alto, Cal.
Professor of Mechanical Engineering, Leland Stanford Junior University

Oliver Wesley Dynes G 1911 Agricultural College, N. D.
Associate Professor of Agronomy, North Dakota Agricultural College

Arthur Starr Eakle U 1892*† (California CF 1901) Berkeley, Cal.
Assistant Professor of Mineralogy, University of California

Elmer Gould Eberhardt U 1904
(Deceased 1908)

Charles David Eckler U 1899
(Deceased 1904)

Henry Turner Eddy A 1888*† (Minnesota CF 1896) Minneapolis
Dean of Graduate School, University of Minnesota [Minn.

Walter Smith Edge U 1903 Darlington, Md.
Civil Engineer

Claude Wilbur Edgerton G 1907* Baton Rouge, La.
Plant Pathologist, Louisiana Agricultural Experiment Station

James Harvey Edwards U 1888 New York City
Assistant Chief Engineer, American Bridge Company

Emil Alfred Ekern G 1904 Grace, Ida.
Engineer, Telluride Power Company

Alfred Henry Eldredge G 1894 Boston, Mass.
Consulting Engineer, North Packing and Provision Company

John Earl Elliott U 1905 Wilmington, Del.
Draftsman

William James Elser F 1907 New York City
Instructor in Bacteriology, Cornell University Medical College

George Charles Embody G 1909 Ithaca, N. Y.
Instructor in Agriculture, Cornell University

Louis Warren Emerick U 1891 Fulton, N. Y.
Vice-President, Fulton Light, Heat and Power Company

Albert Hamilton Emery, Jr U 1898† Stamford, Conn.
Engineer, Clarks Hill Place

Millard Clayton Ernsberger U 1908 Rochester, N. Y.
Professor of Mechanical Engineering, University of Rochester

Clarence Metz Eshelman U 1898 Niagara Falls, N. Y.
Electrical Engineer

Frank Eurich, Jr — U 1899 — Jersey City, N. J.
Architect

Early Cunningham Ewing — G 1909 — Aberdeen, Miss.

Henry Ellsworth Ewing — G 1911 — Corvallis, Ore.
Assistant Entomologist, Oregon Agricultural Experiment Station

James Ewing — F 1904*† — New York City
Physician, Professor of Pathology, Cornell University Medical College

Herman Le Roy Fairchild — A 1888*† — Rochester, N. Y.
Professor of Geology, University of Rochester

Robert Morris Falkenau — U 1905 — New York City
Erecting Engineer

George C Farkell — U 1891 — Lorain, Ohio
Department Superintendent, National Tube Company

Ephraim Porter Felt — G 1894 — Albany, N. Y.
State Entomologist, State Museum

Robert Coyner Fenner — F 1904* — Chicago, Ill.
Manager Chicago Office, Cutler-Hammer Manufacturing Company

Jeremiah Sweetser Ferguson — F 1907* — New York City
Assistant Professor of Histology, Cornell University Medical College

Margaret Clay Ferguson — U 1899* — Wellesley, Mass.
Professor of Botany, Wellesley College

Bernhard Eduard Fernow — F 1899*† — Toronto, Canada
Dean of Forestry, Toronto University

Clarence Errol Ferree — G 1904* — Bryn Mawr, Pa.
Associate in Psychology, Bryn Mawr College

Ervin Sidney Ferry — U 1889*† (Purdue CF 1909) — Lafayette, Ind.
Professor of Physics, Purdue University

Claud William Leroy Filkins — U 1893* — Philadelphia, Pa.
Civil Engineer, Wm. Wharton, Jr., and Company, Inc.

John Charles Lounsbury Fish — U 1892* (Standard CF 1902) — Palo Alto, Cal.
Professor of Railroad Engineering, Leland Stanford Junior University

Pierre Augustine Fish — U 1890*† — Ithaca, N. Y.
Professor of Veterinary Physiology, Cornell University

Carl Wallace Fisher — U 1901 — San Mateo, Cal.
Veterinarian

Henry Wright Fisher — U 1888* — Berth Amboy, N. J.
Chief Engineer, Standard Underground Cable Company

Mary Jones Fisher — U 1906 — Madrid, Spain
Girls' Science School

Wager Fisher — U 1899 — Philadelphia, Pa.
Consulting Engineer

Willard James Fisher — G 1907* — Ithaca, N. Y.
Instructor in Physics, Cornell University

Clifford Penny Fitch — U 1911 — Ithaca, N. Y.
Instructor in Bacteriology, New York State Veterinary College

William Benjamin Fite — G 1899* (Columbia F 1911) — New York City
Professor of Mathematics, Columbia University

Warren Beebe Flanders U 1902 Wilkinsburg, Pa.
Mechanical Engineer

Thomas Fleming, Jr U 1905 Pittsburgh, Pa.
Chester and Fleming, Consulting Engineers

Philena Belle Fletcher U 1904 Provo, Utah
(Mrs William Harrison Homer, Jr)

Charles Frederick Flocken U 1901 Washington, D. C.
Bacteriologist, U. S. Bureau of Animal Industry

Alan Estis Flowers U 1902* (Missouri F 1905) Columbia, Mo.
Assistant Professor of Electrical Engineering, University of Missouri

Arthur Lee Foley G 1897* (Indiana CF 1904) Bloomington, Ind.
Professor of Physics, Indiana University

Frederick Jackson Folk U 1901
(Deceased 1903)

James Alfred Foord G 1902 Amherst, Mass.
Head of Division of Agriculture, Massachusetts Agricultural College

Edward Thaddeus Foote U 1906 Milwaukee, Wis.
Engineer, Cutler-Hammer Manufacturing Company

Hannibal Choate Ford U 1903 New York City
Mechanical Engineer, The Sperry Gyroscope Company

Walter Stebbins Ford F 1911 Ithaca, N. Y.
Assistant Professor of Electrical Engineering, Cornell University

Alexander Hardie Forman G 1909 Ithaca, N. Y.
Instructor in Physics, Cornell University

Edwin John Fort U 1893 Brooklyn, N. Y.
Civil Engineer

Henry Hubbard Foster U 1899 Ottawa, Canada
Ottawa University

Fred William Foxworthy G 1903* Manila, P. I.
Botanist, Biological Laboratory, Bureau of Science

Samuel Fraser F 1905 Geneseo, N. Y.
Fruit Grower and Nurseryman

Henry North Frear G 1909 Harrison, N. J.
Chemist, General Electric Company

Edward Elway Free U 1906* Washington, D. C.
Physicist, Bureau of Soils, U. S. Department of Agriculture

Alfred Freeman U 1898 New York City
Architect

James Benton French A 1888 Jamaica, N. Y.
Consulting Bridge Engineer

Walter Edward Fritz U 1911 Buffalo, N. Y.

Howard Brett Frost G 1911 Ithaca, N. Y.
Assistant, Department of Horticulture, Cornell University

John Martin Fry U 1911 Ephrata, Pa.

Estevan Antonio Fuertes F 1894†
(Deceased 1903)

Louis Agassiz Fuertes A 1905*† Ithaca, N. Y.
Ornithologist and Illustrator

Lucius B Fuller U 1906 Boise, Ida.
General Manager, Beaver River Power Company

Paul Frederick Gaehr U 1902* Aurora, N. Y.
Professor of Physics, Wells College

Henry Phelps Gage U 1908 Corning, N. Y.
Physicist, Corning Glass Works

Otis Amsden Gage G 1904 (Wisconsin F 1907) Madison, Wis.
Assistant Professor of Physics, University of Wisconsin

Simon Henry Gage F 1908*† Ithaca, N. Y.
Professor Emeritus of Histology and Embryology, Cornell University

Susanna (Phelps) Gage A 1888*† Ithaca, N. Y.
(Mrs Simon Henry Gage) Investigator

Victor Raymond Gage G 1910 Ithaca, N. Y.
Instructor in Experimental Engineering, Cornell University

Charles Stuart Gager G 1901* Brooklyn, N. Y.
Director, Brooklyn Botanical Garden

Frederic Freelinghuyson Gaines U 1895 Savannah, Ga.
Superintendent of Motive Power, Central of Georgia Railroad

Alexander Sarkis Galajikian U 1909 Ithaca, N. Y.
Instructor in Physics, Cornell University

Haig Galajikian U 1911 Ithaca, N. Y.
Graduate Student in Mathematics, Cornell University

Francis Edward Gallagher U 1906* Boston, Mass.
Consulting Chemist, Arthur D. Little, Inc.

Sidney Longman Galpin G 1909 Ithaca, N. Y.
Instructor in Geology, Cornell University

Eleanor A McCulloch Gamble G 1898* Wellesley, Mass.
Professor of Psychology, Wellesley College

Ray Willard Gannett U 1905 Brooklyn, N. Y.
Veterinarian

Laura Gano G 1906 West Richmond, Ind.
Botanist

Arthur Sellars Garrett U 1897 Philadelphia, Pa.
President, American Water Softener Company

Ferd Guy Gasche U 1890 Chicago, Ill.
Mechanical Engineer, Illinois Steel Company

Robert Harvey Gault U 1902 Evanston, Ill.
Assistant Professor of Psychology, Northwestern University

Howard Earl Geer U 1901 New York City
Construction Manager, Raymond Concrete Pile Company

Jennie Wither Geer U 1898
(Deceased 1906)

William Chauncey Geer U 1902* Akron, Ohio
Chief Chemist, The B. F. Goodrich Company

Ray Stewart Gehr U 1906 Washington, D. C.
Patent Lawyer

Ludwig Reinhold Geissler G 1908* Cleveland, Ohio
Research Psychologist, National Electric Lamp Association

Walter Hudson Gelder U 1898 Canandaigua, N. Y.
General Manager, Lawton Limestone Company

Lewell T Genung U 1897 Worcester, N. Y.
Physician

Nelson Howard Genung F 1892 New York City
Vice-President, Coatesville Boiler Works

Martin Hughes Gerry G 1894† Helena, Mont.
Chief Engineer and General Manager, Missouri River Power Company

Bancroft Gherardi G 1894 New York City
Engineer of Plant, American Telephone and Telegraph Company

Harley Stuart Gibbs U 1898
(Deceased 1899)

Roswell Clifton Gibbs G 1908 Ithaca, N. Y.
Instructor in Physics, Cornell University

Walter Scott Giele U 1906 Philadelphia, Pa.
Mechanical Engineer, Harrison Safety Boiler Works

Arthur Witter Gilbert G 1908* Ithaca, N. Y.
Professor of Plant Breeding, Cornell University

Adam Capen Gill F 1895*† Ithaca, N. Y.
Assistant Professor of Mineralogy and Petrography, Cornell University

David Clinton Gillespie F 1909 Ithaca, N. Y.
Instructor in Mathematics, Cornell University

Horace Wadsworth Gillett U 1906 Detroit, Mich.
Manager, Research Department, Aluminum Castings Company

Gertrude Assheton Gillmore U 1901 Detroit, Mich.
Teacher of Nature Study, City Normal School

John Washington Gilmore F 1906*† Honolulu, H. I.
President, Agricultural College of Hawaii

Ralph John Gilmore G 1911 Ithaca, N. Y.
Instructor in Zoology, Cornell University

Ward Giltner U 1906 East Lansing, Mich.
Instructor in Bacteriology, Michigan Agricultural College

Charles Stephen Gladden U 1900 New York City
Assistant Engineer, C. O. Lenz Consulting Engineer

Frank Conant Gobel U 1903 Brooklyn, N. Y.
Electric Draftsman

Otto Louis Goehle U 1905 New York City
Physician, St. Mary's Free Hospital

Julius Goettsch U 1902 Chicago, Ill.
Sales Engineer, Western Electric Company

Clarence Jeremiah Gomph U 1902 Flint, Mich.
In charge of Design and Drafting, The Western Mott Company

James Franklin Goodman U 1899 Kansas City, Mo.
Secretary, Anson Lumber Company

George Huntly Gordon U 1905 Kingston, Ont.
Mechanical Engineer

William Alexander Gordon U 1896 Shelton, Conn.
Superintendent, Birmingham Iron Foundry

Margaret Graham G 1909 Jersey City, N. J.
Student

Louis Caryl Graton A 1905* Cambridge, Mass.
Assistant Professor of Mining Geology, Harvard University

Clyde D Gray U 1900 New York City
Assistant Electrical Engineer, J. G. White and Company

Leslie Jackson Gray U 1896 Pittsburgh, Pa.
Assistant to General Superintendent, American Steel and Wire Company

Isabella Moore Green G 1896 Mt. Washington, Los Angeles, Cal.
(Mrs Willett Lepley Hardin)

William Benjamin Gregory G 1908* New Orleans, La.
Professor of Experimental Engineering, Tulane University

Harriet Elizabeth Grotecloss A 1888 Palo Alto, Cal.
(Mrs Charles David Marx)

Eugene Julius Grow G 1897 Washington, D. C.
Surgeon in U. S. Army, Naval Department

Omar Ray Gullion F 1906 Eugene, Ore.
Physician

Walter David Gundelfinger U 1904
(Deceased 1908)

Henry Ralph Gundlach U 1911 Back River, Md.

Daniel Webster Gunner U 1887
(Deceased 1887)

Edward Charles Hager U 1895 Syracuse, N. Y.
Assistant Superintendent, Solvay Process Company

Clarence Frederic Hale G 1909 Middletown, Conn.

Robert Sever Hale U 1893 Boston, Mass.
Special Research, Edison Electric Illuminating Company

Elmer Edgar Hall G 1902* (California F 1902) Berkeley, Cal.
Associate Professor of Physics, University of California

Thomas Hall G 1893 Ridgway, Pa.
Superintendent, Ridgway Dynamo and Engine Company

Harry Richmond Halloran U 1906 Sidney, N. S. W
Assistant Electrical Engineer

Frederick Arthur Halsey A 1888† New York City
Associate in Engineering, Columbia University

Henry George Hamann U 1892 Swampscott, Mass.
Electrical Engineer

Alice Julia Hamlin G 1895 Lincoln, Neb.
(Mrs Edgar Lenderson Hinman)

Alfredo Gottlieb Hammar U 1907 Washington, D. C.
Bureau of Entomology, Department of Agriculture

Adalbert Harding U 1897 Cambridge, Mass.
Contracting Engineer

Harry Alexis Harding G 1909† Geneva, N. Y.
Bacteriologist, N. Y. Agricultural Experiment Station

Isabella Moore Green Hardin G 1896 Mt. Washington, Los Angeles, Cal.
(Mrs Willett Lepley Hardin)

Clarence Melvin Haring U 1904 (California F 1905) Berkeley, Cal.
Instructor in Veterinary Science and Bacteriology, University of California

Cebern Dodd Harris G 1902 Louisville, Ky.
Production Manager, Strater Bros. Tobacco Company

Charles William Harris U 1905 (Washington F 1907) Seattle, Wash.
Instructor in Civil Engineering, University of Washington

Franklin Stewart Harris G 1910 Logan, Utah
Professor of Agronomy, Utah Agricultural College

Gilbert Dennison Harris A 1887*† Ithaca, N. Y.
Professor of Paleontology and Geology, Cornell University

Lena Harris U 1901 Brooklyn, N. Y.
Teacher of Mathematics, Manual Training High School

Rollin Arthur Harris G 1892*† Washington, D. C.
Mathematician, U. S. Coat and Geodetic Survey

Leon Wilson Hartman G 1899* Reno, Nev.
Professor of Physics, University of Nevada

Frederick Zeller Hartzell G 1909 Fredonia, N. Y.
Entomologist, N. Y. Agricultural Experiment Station

Lelia Jefferson Harvie U 1901 Columbus, Ohio
(Mrs Samuel Jackson Barnett)

Philip Bevier Hasbrouck U 1896 North Yakima, Wash.
Fruit Raising

Eugene Elwin Haskell F 1907*† Ithaca, N. Y.
Director, College of Civil Engineering, Cornell University

Charles Nelson Haskins F 1905* (Illinois F 1906) Hanover, N. H.
Assistant Professor of Mathematics, Dartmouth College

Erwin Ernest Haslam A 1907 Buffalo, N. Y.
Field Engineer, International Waterway Commission

Heinrich Hasselbring U 1899*† Washington, D. C.
Chief Botanist, Bureau of Plant Industry

George Tracy Hastings U 1898 New York City
Instructor in Biology, DeWitt Clinton High School

Thomas Wood Hastings F 1907* New York City
Professor of Pathology, Cornell University Medical College

Arthur Stafford Hathaway F 1888 Terre Haute, Ind.
Professor of Mathematics, Rose Polytechnic Institute

Joseph Henry Hathaway F 1906 Louisville, Ky.
Professor of Anatomy, University of Louisville

William Kendrick Hatt G 1891*† Lafayette, Ind.
Professor of Civil Engineering, Purdue University

Max Haupt U 1906 Philadelphia, Pa.
Architect, Anderson and Haupt

Lee Fred Hawley G 1905 Madison, Wis.
Chemist, Forest Products Laboratory

Kiyonori Hayashi U 1904 Namazu Shizuoka-Ken, Japan
Master Mechanic, Namazu Imperial Government Railway Works

Rud Bryant Hayes U 1902 Ithaca, N. Y.
Superintendent of Light, Heat and Power, Cornell University

Samuel Perkins Hayes G 1906* South Hadley, Mass.
Professor of Psychology, Mt. Holyoke College

Stanley Wolcott Hayes U 1891 Richmond, Ind.
President, Hayes Track Appliance Company

John Fillmore Hayford F 1897 (Northwestern F 1897) Evanston, Ill.
Director of College of Engineering, Northwestern University

Harry Hayward U 1894 Newark, Del.
Director, Delaware College Experiment Station

John Kerfoot Haywood U 1896 Washington, D. C.
Chemist, Bureau of Chemistry, U. S. Department of Agriculture

Thomas J Headlee G 1906 Manhattan, Kan.
Professor of Entomology, State Agricultural College

Zillah Heidenheim U 1902 Columbus, Ohio
(Mrs Ernest S Jaros)

Walter Ferdinand Heise U 1911 Wilmington, Del.
Draftsman, American Bridge Company

Charles Louis Heisler U 1890 St. Marys, Ohio
Engineer, The Heisler Company

Edward Heitmann U 1895 St. Catherines, Ont.
Chief Engineer, Canadian Crocker Wheeler Company

Louise Hempstead U 1900 Meadville, Pa.
Newspaper Work

Marguerite Hempstead U 1900 Ithaca, N. Y.
(Mrs Benjamin Freeman Kingsbury)

William Williams Henderson G 1905 Ogden, Utah
Principal, Weber Academy

George Lansing Hendrickson U 1911 Pittsburgh, Pa.
Draftsman and Resident Engineer with Chester and Fleming

Glenn Washington Herrick U 1896* Ithaca, N. Y.
Assistant Professor of Entomology, Cornell University

Howard Drysdale Hess F 1906 Ithaca, N. Y.
Professor of Machine Design, Cornell University

Charles Elbert Hewitt G 1895 Chatham, N. J.
Engineer and Contractor

Herbert Wade Hibbard G 1891* (Minnesota CF 1896) Columbia, Mo.
Professor of Mechanical Engineering, University of Missouri

Edwin Barker Higby G 1896 Rochester, N. Y.
Architect

Seth Morton Higby U 1897 East Orange, N. J.
Chief Draftsman

Reuben Paul Higgins U 1902 Cortland, N. Y.
Physician and Surgeon

Edward Raymond Hildreth U 1908 San Juan, Porto Rico
Physician, Presbyterian Hospital

Agnes Sime Baxter Hill G 1894 Columbia, Mo.
(Mrs Albert Ross Hill)

Ernest Rowland Hill U 1893 East Orange, N. J.
Gibbs and Hill, Electrical Engineers

George Richard Hill G 1910 Ithaca, N. Y.
Instructor in Agriculture, Cornell University

Ida May Hill U 1890 Schenectady, N. Y.
(Mrs William Dalton)

Robert Thomas Hill A 1888*† Washington, D. C.
Editor, American Geologist

William Arthur Hillebrand U 1905* (Stanford F 1905) Corvallis, Ore.
Professor of Electrical Engineering, Oregon Agricultural College

Meier George Hilpert U 1901 Steelton Pa.
Assistant Engineer, Pennsylvania Steel Company

William Atwood Hilton U 1899* Minneapolis, Minn.
Instructor in Anatomy, University of Minnesota

Alice (Hamlin) Hinman G 1895 Lincoln, Neb.
(Mrs Edgar Lenderson Hinman)

Clarence Floyd Hirshfeld G 1903* (California G 1910) Ithaca, N. Y.
Professor of Power Engineering, Cornell University

Emmet Francis Hitch G 1911 Ithaca, N. Y.
Instructor in Chemistry, Cornell University

William Ricketson Hoag A 1887*† (Minnesota CF 1896) Minneapolis,
Professor of Civil Engineering, University of Minnesota [Minn.

Stephen Galusha Hobert U 1896 Chicago, Ill.
Consulting Engineer

Mary (McClure) Hobert U 1900 Vera Cruz, Mexico
(Mrs Charles Boone Hobert)

Percy Hodge G 1908 Hoboken, N. J.
Professor of Physics, Stevens' Institute

John Raymund Hoffert U 1911 Harrisburg, Pa.
Assistant Superintendent, Harrisburg Park Commission

Jessie Allen Holmes U 1898 Brooklyn, N. Y.
(Mrs H I Moody)

Joseph Austin Holmes A 1888*† Washington, D. C.
Director, U. S. Bureau of Mines

Major Edward Holmes G 1910 Kempton, Ind.

Philena Fletcher Homer U 1904 Provo, Utah
(Mrs William Harrison Homer, Jr)

Bert Raymond Hoobler U 1905 New York City
Physician

Elon Huntington Hooker U 1894 New York City
President, Hooker Electro-chemical Company

Cyril George Hopkins G 1894* (Illinois CF 1903) Urbana, Ill.
Professor of Agronomy, University of Illinois

Grant Sherman Hopkins F 1891*† Ithaca, N. Y.
Professor of Veterinary Anatomy, Cornell University

Howard Corwin Hopkins U 1903 Los Angeles, Cal.
Civil Engineer

Herbert Andrew Hopper U 1903 (Illinois CF 1903) Ithaca, N. Y.
Farmer

John Wesley Hornbeak G 1911 Urbana, Ill.
Instructor in Physics, University of Illinois

Homer James Hotchkiss F 1891* Philadelphia, Pa.
Professor of Physics, Drexel Institute

Charles Edwin Houghton G 1894 New York City
Associate Professor of Mechanical Engineering, New York University

Clinton Osborne Houghton U 1902* Newark, Del.
Entomologist, Professor of Biology, Delaware College

Arthur Earl Houlehan G 1910 Ithaca, N. Y.
Instructor in Chemistry, Cornell University

John Samuel Houser G 1911 Wooster, Ohio
Assistant Entomologist, Ohio Agricultural Experiment Station

William Simmons Hovey U 1897 Three Rivers, Mich.
General Superintendent, Sheffield Car Company

Anna Townsend Howard U 1903 New York City
(Mrs Charles Walter Howard)

Charles Walter Howard U 1904* New York City
Entomologist, Rockefeller Institute

Leland Ossian Howard A 1887*† Washington, D. C.
Chief Entomologist, U. S. Department of Agriculture

Anna Mayme Howe G 1911 Jordan, N. Y.

Samuel Purdy Howe U 1902 Camden, N. J.
President, Camden Forge Company

John Eaton Howitt G 1906 Guelph, Ont.
Department of Botany, Ontario Agricultural College

David Fletcher Hoy G 1893 Ithaca, N. Y.
Registrar, Cornell University

Tung Chao Hu U 1905 Canton, China
Chief Engineer, Szechuen-Hankow Railroad

George David Hubbard G 1905* (Ohio F 1907) Oberlin, Ohio
Professor of Geology, Oberlin College

Benjamin S Hubbell U 1903 Cleveland, Ohio
Hubbell and Benes, Architects

Frederick Bernhard Hufnagel U 1900 Pittsburgh, Pa.
Superintendent of Rolling Mills, Jones and Laughlin Steel Company

Eugene Peter Humbert G 1910 Ithaca, N. Y.

Calvin B Humphrey G 1890 New York City
Vice-President, The White Investing Company

Clarence John Humphrey F 1907* (Nebraska G 1906) Madison, Wis.
Assistant in Forestry, University of Wisconsin

Oswald D Humphrey G 1894 New York City
City Training School for Teachers

Joseph Wynne Hungate G 1910 Cheney, Wash.
Head of Biology, State Normal School

Andrew Hunter F 1909* Ithaca, N. Y.
Assistant Professor of Chemistry, Cornell University

Albert Henry Huntington U 1902 St. Louis, Mo.
Assistant Principal, Central High School

Otto Fred Hunziker G 1901 (Purdue F 1908) Lafayette, Ind.
Professor of Diary Industry, Purdue University

John Irwin Hutchinson F 1896* Ithaca, N. Y.
Professor of Mathematics, Cornell University

Robert Leroy Hutton U 1903 Ridgewood, N. J.
Physician

Tom Bruce Hyde F 1911 Ithaca, N. Y.
Instructor in Experimental Engineering, Cornell University

Francis Pierce Ide U 1892 Springfield, Ill.
Manufacturer

James Franklin Illingworth G 1911 Ithaca, N. Y.
Graduate Student in Entomology, Cornell University

Louis Illmer F 1906 Reading, Pa.
Manager, Gas Engine Department, Reading Iron Company

Helen Isham U 1903* (Illinois F 1907) Urbana, Ill.
Associate in Chemistry, University of Illinois

Robert Austin Ives U 1902 Ithaca, N. Y.
Mechanical Engineer

Dugald Caleb Jackson F 1894*† Boston, Mass.
Professor of Electrical Engineering, Massachusetts Institute of Technology

Herbert Spencer Jackson U 1905 Corvallis, Ore.
Professor of Botany, Oregon Agricultural College

Julius Lilien Jacobs U 1904 Houston, Tex.
Resident Manager, James Stewart and Company, Contractors

Edmund Jacobson G 1911 Chicago, Ill.
Medical Student, University of Chicago

Henry Sylvester Jacoby F 1893*† Ithaca, N. Y.
Professor of Bridge Engineering, Cornell University

Zillah Heidenheim Jaros U 1902 Columbus, Ohio
(Mrs Ernest S Jaros)

Chester Deacon Jarvis G 1906 Storrs, Conn.
Horticulturist, Storrs Agricultural Experiment Station

Henry William Jeffers U 1898 Plainsboro, N. J.
Manager, Walter-Gordon Milk Producing Plant

David John Jenkins U 1892 Milton, Pa.
Electrical Engineer

Eldred Lewellyn Jenne U 1907* Washington, D. C.
Entomologist, Bureau of Entomology, U. S. Department of Agriculture

Christian Nephi Jensen G 1911 Logan, Utah
Professor of Botany and Plant Pathology, Utah Agricultural College

Gerhard Hemming Jensen U 1899 (Chicago G 1902) Evanston, Ill.
Assistant Professor of Botany, Northwestern University

Willis Linn Jepson G 1895* (California CF 1901) Berkeley, Cal.
Assistant Professor of Botany, University of California

Henry Rose Jessel U 1889 Pittsburgh, Pa.
Chief Chemist, William B. Scaife and Sons Company

Harold Frederick Jewett U 1903 Auburndale, Mass.
Foreman, M. P. Department, Boston and Albany Railroad

Francis Eugene Yeates Joannes U 1900 New York City
Architect

Oskar Augustus Johannsen G 1902* Orono, Me.
Professor of Entomology, University of Maine

Harold Eddy Johnston U 1902 Cohoes, N. Y.
Manager, The Cohoes Iron Foundry and Machine Company

Oscar Perry Johnston G 1903 (Colorado F 1906) Chicago, Ill.
Physician

Clement Ross Jones G 1900* Morgantown, W. Va.
Dean, College of Engineering, West Virginia University

Forrest Robert Jones U 1888† Knoxville, Tenn.
Mechanical and Electrical Engineer

Frederick Sowden Jones F 1911 Ithaca, N. Y.
Instructor in Veterinary Medicine, Cornell University

Lloyd Balderston Jones U 1904 Westgrove, Pa.
Assistant Master Mechanic, Pennsylvania Railway

David Starr Jordan A 1887*† (Stanford CF 1902) Palo Alto, Cal.
President, Leland Stanford Junior University

Maurice Grenville Kains G 1897 New York City
Associate Editor, American Agriculturist

Leopold Kann G 1899 Vienna, Austria

Vladimir Karapetoff F 1905* Ithaca, N. Y.
Professor of Electrical Engineering, Cornell University

Louise Waldeman Katz U 1900 Berkeley, Cal.
Cataloguer, University of California

Calvin Henry Kauffman G 1903* (Michigan F 1904) Ann Arbor, Mich.
Assistant Professor of Botany, University of Michigan

Joseph Keele G 1910 Ottawa, Canada
Geologist, Canadian Geological Survey

Karl Frederic Kellerman U 1900*† Washington, D. C.
Physiologist, Bureau of Plant Industry, U. S. Department of Agriculture

Frederick Williams Kelley U 1893 Albany, N. Y.
Vice-President, Manager, Heldenberg Cement Company

Weston Maynard Kelsey U 1905 Mineral Point, Wis.
Chemist

James Furman Kemp F 1887*† (Columbia CF 1903) New York City
Professor of Geology, Columbia University

Otis Allen Kenyon U 1904 Hastings-on-Hudson, N. Y.
Electrical Engineer

Abram Tucker Kerr F 1901*† Ithaca, N. Y.
Professor of Anatomy, Cornell University

Armin George Kessler F 1909 Erie, Pa.
General Manager, Lakeside Forge Company

Frederick Edward Kester G 1899* (Ohio F 1898) Lawrence, Kan.
Professor of Physics, University of Kansas

Dexter Simpson Kimball F 1899*† Ithaca, N. Y.
Professor of Machine Design, Cornell University

Edward Martin Kindle G 1897* Washington, D. C.
Geologist, U. S. Geological Survey

Clifford Marshall King U 1904 Sandusky, Ohio
Civil Engineer

Jessie Luella King G 1911 Baltimore, Md.
Instructor in Physiology, Goucher College

Walter Edward King G 1905* Detroit, Mich.
Assistant Director of Laboratory, Parke Davis Company

Albert Kingsbury U 1889*† Pittsburgh, Pa.
Consulting Engineer

Benjamin Freeman Kingsbury G 1894*† Ithaca, N. Y.
Professor of Histology and Embryology, Cornell University

Marguerite (Hempstead) Kingsbury U 1900 Ithaca, N. Y.
(Mrs Benjamin Freeman Kingsbury)

John Knickerbacker CG 1886 Waterford, N. Y.
President, Eddy Valve Company

Charles Tobias Knipp G 1899* (Illinois CF 1903) Urbana, Ill.
Assistant Professor of Physics, University of Illinois

James Somerville Knowlson U 1905 Schenectady, N. Y.
General Electric Company

Lewis Knudson G 1908 Ithaca, N. Y.
Assistant Professor of Plant Physiology, Cornell University

Sidney Graves Koon U 1902 Boston, Mass.
Publicity Engineer

Harry Kornfeld U 1911 Keokuk, Ia.
With the Mississippi River Power Company

Frederick Lawrence Kortright U 1890* Morgantown, W. Va.
Professor of Chemistry, West Virginia University

William George Kranz U 1893 Sharon, Pa.
Manager, National Malleable Castings Company

William Christopher Krauss A 1903†
(Deceased 1909)

Frederick Hartzler Krecker G 1906 Marietta, Ohio
Professor of Biology, Marietta College

James Edward Kress U 1891 Johnstown, Pa.
Engineer of Tests

Fred Hutton Kroger F 1906 (Colorado G 1905) Brooklyn, N. Y.
Engineer, National Electric Signalling Company

Harry Waldo Kuhn G 1899* (Ohio F 1900) Columbus, Ohio
Professor of Mathematics, Ohio State University

Joseph Kuhn U 1892 Buffalo, N. Y.
Secretary and Treasurer, Smelting Company

Ford Kurtz U 1907 New York City
Assistant Engineer, J. G. White and Company, Inc

Harold Newton Kutschbach U 1910 Sherburne, N. Y.
Farmer

Kathryn Belle Kyser G 1908 Pueblo, Mexico
Missionary

Herbert Henry Landers U 1890
(Deceased 1893)

Alexander Suss Langsdorf G 1901 St. Louis, Mo.
Dean of Schools of Engineering, Washington University

Burton Smith Lanphear U 1894
(Deceased 1904)

Charles Benham Larzelere U 1897 Culebra, C. Z.
Engineer, Isthmian Canal Commission

James Law F 1894† Ithaca, N. Y.
Professor Emeritus of Veterinary Medicine, Cornell University

Frank Elmaker Lawrence U 1896 Macon, Ga.
Supervisor of Track, Central of Georgia Railroad

Henry Edmund Lawrence G 1895* Rochester, N. Y.
Professor of Physics, University of Rochester

William Hurford Lawrence G 1907 Puyallup, Wash.
Director, Western Washington Agricultural Experiment Station

Robert Phinney Lay F 1909 Syracuse, N. Y.
Chief Draftsman, H. H. Franklin Manufacturing Company

William Rane Lazenby A 1887*† (Ohio CF 1898) Columbus, Ohio
Professor of Horticulture and Forestry, Ohio State University

Joseph Nisbet Le Conte G 1892* (California CF 1901) Berkeley, Cal.
Associate Professor of Mechanical Engineering, University of California

Henry Leighton U 1906 Albany, N. Y.
Assistant to State Geologist

Clyde Evert Leighty G 1910 Ithaca, N. Y.
Assistant in Plant Breeding, Cornell University

Ora Miner Leland F 1906* Ithaca, N. Y.
Assistant Professor of Astronomy and Geodesy, Cornell University

Stephen Rose Leonard U 1895 Oneida, N. Y.
Second Vice-President, Oneida Community, Ltd.

Arthur Bernard Levy G 1890 New York City
Stock Broker

Charles Edward Lewis G 1904* (Wisconsin F 1907) Orono, Me.
Associate Plant Pathologist, Agricultural Experiment Station

Claude Isaac Lewis G 1906 Corvallis, Ore.
Professor of Horticulture, State Agricultural College

George William Lewis G 1910 Swarthmore, Pa.
Assistant Professor, Mechanical Engineering, Swarthmore College

John Howard Lewis U 1903 Salem, Ore.
State Engineer

Edwin Fuller Lines U 1904* Washington, D. C.
Geologist, U. S. Geological Survey

Orlando Hayward Linton U 1906 Truro, N. S.
Civil Engineer

Jacob Goodale Lipman G 1900* New Brunswick, N. J.
Director of Agricultural Experiment Station, Rutgers College

Kenneth Carter Livermore U 1909 Ithaca, N. Y.
Instructor in Agriculture, Cornell University

John Thomas Lloyd U 1910 Ithaca, N. Y.
Instructor in Entomology, Cornell University

Ernest Gustavus Loderman F 1893
(Deceased 1896)

Edith Loeber U 1903 New Orleans, La.
Physician

Henry Charles Lomb U 1894 Rochester, N. Y.
Bausch and Lomb Optical Company

Clarence Edward Loomis U 1888
(Deceased 1891)

Alfred James Lotka G 1909 New York City
Editor, Scientific American Staff

Frank William Love U 1894 Buffalo, N. Y.
Physician

Harry Houser Love G 1908 Ithaca, N. Y.
Professor of Plant Breeding, Cornell University

Earl Brink Lovell U 1891 (Columbia CF 1903) New York City
Professor of Civil Engineering, Columbia University

Andrew Jackson Lowndes U 1905 San Francisco, Cal.
Superintendent, Pacific Coast Steel Company

Justin Wyman Ludlow U 1903 Chicago, Ill.
Assistant Professor of Mechanics, Lewis Institute

Gustave Ernst Frederick Lundell G 1909 Ithaca, N. Y.
Instructor in Chemistry, Cornell University

James Lyman G 1895 Chicago, Ill.
Engineer, Sargent and Lundy, Steam, Mechanical and Electrical Engineers

Richard Roswell Lyman G 1904* Salt Lake City, Utah
Professor of Civil Engineering, University of Utah

Sophie Harriet Lyndon (Mrs Arthur Wescott Cowell) — U 1906 — Cheswick, Pa.

Thomas Lyttleton Lyon — F 1907*† (Nebraska CF 1897) — Ithaca, N. Y.
Professor of Soil Technology, Cornell University

Alexander Dyer MacGillivray — G 1900*† — Urbana, Ill.
Assistant Professor of Entomology, University of Illinois

John Givan Davis Mack — A 1888 (Wisconsin CF 1907) — Madison, Wis.
Professor of Machine Design, University of Wisconsin

Winfred Berdell Mack — U 1904 — Reno, Nev.
Professor of Veterinary Science, University of Nevada

William MacKintosh — U 1896 — Oklahoma City, Okla.
President, MacKintosh Barbour Company

Murray Macneill — G 1898 — Halifax, N. S.
Professor of Mathematics, Dalhousie College

Irwin John Macomber — G 1894 — Richmond Hill, N. Y.
Mechanical Engineer

William Watts Macon — U 1898 — Brooklyn, N. Y.
Editor, The Iron Age

William Henry Magee — G 1893 — Annapolis Royal, N. S.
Teacher

John Peter Magnusson — G 1906* — Rock Island, Ill.
Professor of Physics and Chemistry, Augustana College

Joseph Plaisted Maider — U 1911 — Phoenix, N. Y.

Kengo Makino — G 1909 — Takahashi, Japan

William Garfield Mallory — G 1910 — Ashland, Va.
Professor of Physics, Randolph-Macon College

Charles Matthews Manly — U 1898 — New York City
Vice-President, Manly Drive Company

Albert Russell Mann — U 1904 — Ithaca, N. Y.
Secretary of College of Agriculture, Cornell University

Paul Blakeslee Mann — G 1903 — New York City
Teacher of Biology, Morris High School

Louis Benedict Marks — G 1890* — New York City
Consulting Engineer

Lionel Simeon Marks — G 1894*† — Cambridge, Mass.
Professor of Mechanical Engineering, Harvard University

Vernon Freeman Marsters — A 1888* — Lima, Peru
Geologist, Director of Geological Survey, Republic of Peru

Anson Marstin — U 1889*† — Ames, Ia.
Dean of Engineering, Iowa State College

Frank Martin — U 1900 — Newark, N. J.
Superintendent, Celluloid Company

Harriett Marie Martin — G 1905 — Ithaca, N. Y.
Student, Cornell University

William Franklin Martin — G 1906 — Los Angeles, Cal.
Assistant Engineer

Charles David Marx CF 1887*† (Stanford CF 1902) Palo Alto, Cal.
Professor of Civil Engineering, Leland Stanford Junior University

Guido Hugo Marx U 1893 (Stanford CF 1902) Palo Alto, Cal.
Professor of Machine Design, Leland Stanford Junior University

Harriet Elizabeth (Grotecloss) Marx A 1888 Palo Alto, Cal.
(Mrs Charles David Marx)

Myrtle Lothrop Massey U 1898 Jamaica, N. Y.
Physician

Frank Harris Masters U 1904 Chicago, Ill.
Civil Engineer, Chicago and Lake Shore Railway Company

Robert Matheson G 1907* Ithaca, N. Y.
Instructor in Biology, Cornell University

Clarence Wentworth Matthews U 1891* Lexington, Ky.
Professor of Horticulture, Kentucky State University

Charles Philo Matthews G 1894
(Deceased 1907)

Carlotta Joaquina Maury G 1898* New York City
Lecturer on Geology, Barnard College, Columbia University

Fred Baldwin Maxwell G 1892
(Deceased 1907)

Edwin Charles Mayer U 1909 Ithaca, N. Y.
Instructor in Physics, Cornell University

Harry Welday Mayes U 1911 Ithaca, N. Y.
Graduate Student, Cornell University

Walter John Maytharm U 1902 Jackson, Mich.
Peninsular Engineering and Construction Company

Addams Stratton McAllister G 1901 New York City
Associate Editor, Electrical World

Ellen S McCarthy U 1907 (Illinois F 1909) Urbana, Ill.
Instructor in Chemistry, University of Illinois

Elmer James McCaustland F 1903* Seattle, Wash.
Professor of Municipal Engineering, University of Washington

Hugh Herbert McClellen U 1897 Troy, N. Y.
Manufacturer

Mary Frances McClure U 1900 Vera Cruz, Mexico
(Mrs Charles Boone Hobert)

Merris Mickey McCool G 1911 Ithaca, N. Y.
Instructor in Agriculture, Cornell University

Ira Welch McConnell U 1900 Richfield, Ida.
Vice-President and Manager, Idaho Irrigation Company, Ltd.

Bradley Thomas McCormick U 1903 Montreal, Canada
Engineer, Allis-Chalmers-Bullock Company

Walter Edward McCourt U 1904* St. Louis, Mo.
Assistant Professor of Geology, Washington University

George Lewis McCracken U 1903 Ithaca, N. Y.
Teacher

George Robert McDermott F 1906† Ithaca, N. Y.
Professor of Naval Architecture, Cornell University

Louise Sherwood McDowell G 1907 Wellesley, Mass.
Associate Professor of Physics, Wellesley College

Richard Smyth McGowin U 1898 Philadelphia, Pa.
Shoe Department, John Wanamaker

William John McKee F 1910 Etna, Pa.

Frederic James Alexander McKittrick G 1896 Buenos Aires, Argentina
Managing Director, South American General Electric Company

Henry Crane McLallen U 1898 Trumansburg, N. Y.
Agriculturist

James McMahon F 1890*† Ithaca, N. Y.
Professor of Mathematics, Cornell University

Frederick Henry McNair G 1906 Berkeley, Cal.
City Veterinarian

Robert Joseph McNitt U 1894 Perth Amboy, N. J.
Assistant, Roessler and Hasslacher Chemical Company

Daniel John Meador, Jr U 1911 Selma, Ala.
Assistant State Veterinarian

Caroline Wallace Merrell U 1902 Philadelphia, Pa.
Teacher

Earl Abbott Merrill G 1892 New York City
Office Manager, McIntosh and Seymour Company

Ernest George Merritt F 1888*† Ithaca, N. Y.
Dean of Graduate School, Professor of Physics, Cornell University

August Merz G 1894 Newark, N. J.
Superintendent, Coal Tar Color Department, Heller and Merz Company

Paul Messer U 1894 Yokohama, Japan
Chief Engineer, American Trading Company

Joseph McConnechy Michaelson U 1892 Washington, D. C.
Expert Aid, Bureau of Yards and Docks, Navy Department

Robert Thomas Mickle U 1892 Philadelphia, Pa.
President, Mickle-Milnor Engineering Company

Arthur Renwick Middleton G 1903* Lafayette, Ind.
Assistant Professor of Chemistry, Purdue University

Howard Jay Milks U 1904 Ithaca, N. Y.
Veterinarian and Bacteriologist

Roger Alexander Millar U 1900 Lockport, N. Y.
Electrical Engineer

George Abram Miller F 1898* (Stanford CF 1902; Illinois F 1908)
Professor of Mathematics, University of Illinois [Urbana, Ill.

Mary Farrand (Rogers) Miller U 1896† Elizabeth, N. J.
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Myrtle Helen Miller U 1898 New York City
Teacher of Mathematics, Morris High School

Wilhelm Miller A 1899*† Garden City, L. I., N. Y.
Editor, Doubleday, Page and Company

Elizabeth (Bolger) Milligan U 1906 Philadelphia, Pa.
(Mrs Oswald Milligan)

Frank Edward Millis G 1896
(Deceased 1903)

Edward Russell Minns F 1908 (Ohio U 1905) Ithaca, N. Y.
Assistant Professor of Extension State College of Agriculture

Yataro Mishima G 1890 , Tokyo, Japan
President, Yokohoma Specie Bank

Elisabeth Mitchell G 1903 West Lafayette, Ind.
Teacher

James Francis Mitchell U 1911 Berkeley, Cal.
Assistant in Experiment Station, University of California

Küchi Miaké G 1901 Tokyo, Japan
Professor of Botany, Botanical Institute, Imperial University

Fred A Molby G 1908 Ithaca, N. Y.
Instructor in Physics, Cornell University

George Sylvanus Moler CF 1886* Ithaca, N. Y.
Professor of Physics, Cornell University

Agnes (Claypole) Moody G 1894*† Berkeley, Cal.
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Jessie (Holmes) Moody U 1898 Brooklyn, N. Y.
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Robert Orton Moody F 1901* (California F 1902) Berkeley, Cal.
Assistant Professor of Anatomy, University of California

Clarence Stanton Moore U 1898
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Emmeline Moore U 1906 Trenton, N. J.
Teacher of Botany, New Jersey State Normal

Herbert Fisher Moore U 1899* (Wisconsin CF 1906; Illinois F 1908)
Assistant Professor of Mechanics, University of Illinois [Urbana, Ill.

Veranus Alva Moore F 1897*† Ithaca, N. Y.
Director of Veterinary College, Cornell University

Anna Haven Morgan G 1910 Ithaca, N. Y.
Fellow, Cornell University

James Oscar Morgan G 1908 Horse Shoe, N. C.
Student, Cornell University

Caroline (Baldwin) Morrison G 1895 Palo Alto, Cal.
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Darwin Abbot Morton U 1895* Syracuse, N. Y.
Research Chemist, Solvay Process Company

Sanford Alexander Moss F 1903* West Lynn, Mass.
Engineer, Turbine Research Department, General Electric Company

Alfred Milton Mosscrop A 1888 Rochester, N. Y.
Director, Dorman, Long and Co., Ltd. (England)

William Addams Mosscrop CU 1886 New York City
Engineer of Supplies, New York Telephone Company

William Elton Mott F 1903* Pittsburgh, Pa.
Professor of Civil Engineering, Carnegie Technical Schools

Walter Mulford U 1901* (Michigan G 1905) Ithaca, N. Y.
Professor of Forestry, Cornell University

Welton Marks Munson G 1901*† Morgantown, W. Va.
Professor of Horticulture, University of West Virginia

Carleton Chase Murdoch G 1909 Ithaca, N. Y.
Instructor in Physics, Cornell University

Daniel Alexander Murray F 1897* Montreal, Canada
Professor of Applied Mathematics, McGill University

Elsie Murray G 1906 Poughkeepsie, N. Y.
Instructor in Psychology, Vassar College

William Alphonso Murrill G 1893*† New York City
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Burton Dorr Myers F 1900* (Indiana CF 1904) Bloomington, Ind.
Professor of Anatomy, University of Indiana

Charles Emory Myers G 1911 State College, Pa.
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Hatsune Nakano G 1889 Tokyo, Japan
Department of Electrical Engineering, Imperial University

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Tsunejiro Nambu A 1888 Kumamoto, Japan
Civil Engineer

George William Nasmyth G 1908* Ithaca, N. Y.
Instructor in Physics, Cornell University

James George Needham G 1897*† Ithaca, N. Y.
Professor of Biology, Cornell University

Frederick Charlesworth Neilson U 1898 Hartford, Conn.
Assistant Inspector, Navy Department, Bureau of Steam Engineering

Frank Davis Newbury U 1901 Pittsburgh, Pa.
Electrical Engineer

Spencer Baird Newbury F 1892 Sandusky, Ohio
Chemist

Edward Leamington Nichols F 1887*† Ithaca, N. Y.
Professor of Physics, Cornell University

Ernest Fox Nichols G 1892*† (Columbia F 1904) Hanover, N. H.
President, Dartmouth College

Edson Hoyt Nichols G 1909 Philadelphia, Pa.
C. W. Nichols, Wooden Box Manufacturer

Mary Alice Nichols G 1895 Chappaqua, N. Y.
(Mrs John Cox, Jr)

Susan Percival Nichols U 1898 Oberlin, Ohio
Associate Professor of Botany, Oberlin College

Frederick Noe U 1897
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Charles Franklin Noll G 1911 State College, Pa.
Department of Agronomy, Pennsylvania State College

Harry Waldo Norris G 1889* Grinnell, Ia.
Professor of Zoology, Grinnell College

Henry Hutchinson Norris F 1897*† Ithaca, N. Y.
Professor of Electrical Engineering, Cornell University

Harold Frederick Norton U 1896 Newport News, Va.
Draftsman, Ship Building and Dry Dock Company

Jesse Baker Norton F 1908* Washington, D. C.
Physiologist, Bureau of Plant Industry, U. S. Department Agriculture

Mary Chilton Noyes G 1894* Plainesville, Ohio
Teacher, Lake Erie College

Vasco Emilio Nunez G 1911 Boston, Mass.
Chemist, Arthur D. Little, Inc.

Perley Gilman Nutting G 1903* Washington, D. C.
Associate Physicist, Bureau of Standards

Algernon Sidney Nye U 1888 New York City
Civil Engineer

Ruben Edson Nyswander, Jr G 1908 Denver, Col.
Professor of Physics, University of Denver

Abigail Adaline O'Brien U 1902 Utica, N. Y.
Teacher of Science, Utica Free Academy

Henry Neely Ogden F 1890*† Ithaca, N. Y.
Professor of Sanitary Engineering, Cornell University

James Edward Oliver F 1894
(Deceased 1895)

George Robert Olshausen F 1904* (Worcester CF 1908) Worcester, Mass.
Assistant Professor of Electrical Engineering, Worcester Polytechnic

James George O'Neill U 1903 Geneva, N. Y.
Chemist, Empire Coke Company

William Ridgely Orndorff F 1891*† Ithaca, N. Y.
Professor of Chemistry, Cornell University

Charles Francis Osborne F 1887 (Pennsylvania F 1904) Philadelphia, [Pa.
Professor of Architecture, University of Pennsylvania

Ching Ko Ow U 1909 Canton, China

Fred William Owens F 1908 (Kansas U 1901) Ithaca, N. Y.
Instructor in Mathematics, Cornell University

Anna Helene Palmie G 1891* Cleveland, Ohio
Professor of Mathematics, Western Reserve University

George Cox Parmeter U 1888
(Deceased 1898)

Charles Wesley Darwin Parsons U 1897* Chicago, Ill.
Superintendent, Central Scientific Company

George Parsons U 1904 Winnebago, Ill.
Engineer, Miller, Franklin and Stevenson

George Edward Patrick A 1888† Washington, D. C.
Dairy Chemist, U. S. Department of Agriculture

William Edgar Patten U 1911 Shanghai, China
Professor of Railroad Engineering, Imperial Polytechnic College

Jesse Randolph Pawling G 1906 Ithaca, N. Y.
Assistant in Physiology, Cornell University

Leonard Pearson U 1888† (Pennsylvania CF 1900)
(Deceased 1909)

Raymond Allen Pearson U 1894*† Albany, N. Y.
Commissioner of Agriculture, New York State

Ellery Newell Peck U 1902 Sussex, N. J.
Physician

James Clinton Peebles G 1908 Ithaca, N. Y.
Instructor in Experimental Engineering, Cornell University

Jessie Burnham Peirson U 1906 Pasadena, Cal.
Teacher

Mabel Burnham Peirson U 1900 Pasadena, Cal.
Teacher

Robert Allen Pendergrass U 1900 Pittsburgh, Pa.
Draftsman, McClintic-Marshall Construction Company

George Wilfred Penfield U 1900 New Britain, Conn.
Civil Engineer

Albert Silas Penney U 1902 Adams, N. Y.
Factory Manager

George Arthur Perley G 1910 Durham, N. H.
Assistant Professor of Chemistry, New Hampshire College

Irvine Perrine G 1909 Norman, Okla.
Associate Professor of Geology, University of Oklahoma

Clarence Arthur Perry U 1899 New York City
Educational Investigator, Russell Sage Foundation

John George Pertsch, Jr G 1910 Ithaca, N. Y.
Instructor in Electrical Engineering, Cornell University

James Harvey Pettit U 1900* Urbana, Ill.
Professor of Soil Fertility, University of Illinois

Rufus Hiram Pettit U 1895 East Lansing, Mich.
Professor of Entomology, Michigan Agricultural College

William Henry Pfau U 1888 Hamilton, Ohio
Paper Manufacturer

Joseph Oliver Phelon G 1901 (Worcester CF 1908) Worcester, Mass.
Professor of Electrical Engineering, Worcester Polytechnic Institute

Adams Phillips U 1901 Concord, Tenn.
Principal, Farragut High School

Clarence Albert Pierce G 1908 Worcester, Mass.
Assistant Professor of Electrical Engineering, Worcester Polytechnic

Walter Bowers Pillsbury G 1894*† (Michigan CF 1903) Ann Arbor, [Mich.
Professor of Psychology, University of Michigan

George Emil John Pistor U 1901 New York City
Contracting Engineer, Hay Foundry and Iron Works

William Mecklenburg Polk F 1904*† New York City
Dean of Medical College, Cornell University

Clyde Potts A 1911 New York City
Consulting Engineer

George Harold Powell G 1896* Los Angeles, Cal.
Secretary and Manager, Citrus Protective League of California

William Henry Powell G 1901 Cincinnati, Ohio
General Superintendent, Bullock Electric Manufacturing Company

David Shepard Pratt G 1909 Manila, P. I.
Chemist, Bureau of Science

Eugene Henry Preswick F 1887 Ithaca, N. Y.
Agriculturist

John Walter Prince U 1899 Kansas City, Mo.
Vice-President, Freeborn Engineering and Construction Company

Charles Smith Prosser F 1887*† (Ohio F 1900) Columbus, Ohio
Professor of Geology, Ohio State University

Martin John Prucha G 1911 Ithaca, N. Y.
Graduate Student in Cornell University

William Henry Pyle G 1908* Columbia, Mo.
Instructor in Psychology, University of Missouri

Robert Winchell Quick U 1894
(Deceased 1899)

John Adam Raidabaugh U 1905 Sparrows Point, Md.
Designer, Maryland Steel Company

Rolla Roy Ramsey G 1901* (Indiana CF 1904) Bloomington, Ind.
Associate Professor of Physics, Indiana University

Harold Alva Rands U 1901 Portland, Ore.
Assistant Engineer, Portland Railway, Light and Power Company

George Atwater Rankin U 1907 Washington, D. C.
Chemist, Geophysical Laboratory

Robert Rankin U 1904 Sao Paulo, Brazil
Assistant Manager, Sao Paulo Electric Company

Arthur Ranum G 1896* Ithaca, N. Y.
Assistant Professor of Mathematics, Cornell University

Edwin Frederick Rathjen G 1910 Ithaca, N. Y.
Instructor in Chemistry, Cornell University

Walter Rautenstrauch G 1904* New York City
Professor of Mechanical Engineering, Columbia University

Burton Justice Ray G 1908 Raleigh, N. C.
Instructor in Chemistry, North Carolina College of Agriculture

Percy Edward Raymond U 1902*† Cambridge, Mass.
Assistant Professor of Paleontology, Harvard University

Effie Alberta Read U 1903 Washington, D. C.
Microanalyst, Bureau of Chemistry, U. S. Department of Agriculture

John Moore Reade G 1897 Athens, Ga.
Professor of Botany, University of Georgia

Maude Josephine Reamer U 1896 Buffalo, N. Y.
Teacher of Drawing, Central High School

Donald Reddick G 1907* Ithaca, N. Y.
Assistant Professor of Plant Pathology, Cornell University

Harry Westfall Redfield U 1900* Ithaca, N. Y.
Instructor in Chemistry, Cornell University

Hugh Daniel Reed G 1900* Ithaca, N. Y.
Assistant Professor of Zoology, Cornell University

Raymond Clinton Reed F 1897* Newark, Del.
Professor of Bacteriology, Delaware College

Leopold Reinecke G 1904 Ottawa, Canada
Assistant, Geological Survey of Canada

Arthur Eduard Reinke U 1896 Berlin, Germany
Chief Engineer in Europe, Western Electric Company

Charles Foster Rhodes U 1903 Glens Falls, N. Y.
International Paper Company, Bureau of Tests

Arthur Louis Rice G 1896* Chicago, Ill.
Managing Editor, Practical Engineer

James Edward Rice U 1890*† Ithaca, N. Y.
Professor of Poultry Husbandry, Cornell University

John Lyon Rich U 1906 Urbana, Ill.
Instructor in Geology, University of Illinois

Francis Alanson Richmond U 1898* Elmira, N. Y.
Professor of Chemistry and Physics, Elmira College

Arthur William Richter G 1899 Manitowoc, Wis.

Floyd Karker Richtmyer U 1904* Ithaca, N. Y.
Assistant Professor of Physics, Cornell University

Ross Milton Riegel U 1904 New York City
Assistant Engineer, Board of Water Supply

Heinrich Ries F 1900*† Ithaca, N. Y.
Professor of Economic Geology, Cornell University

William Albert Riley G 1899*† Ithaca, N. Y.
Assistant Professor of Entomology, Cornell University

William Hermon Riley CU 1886 Wilmington, Del.

Gilbert Powers Ritter U 1897 Washington, D. C.
Lawyer

Ralph Noyes Robertson F 1906 Denver, Col.
Power Engineer, American Smelting and Refining Company

Charles Albert Robinson, Jr U 1906 New York City
Telephone Engineer, American Telephone and Telegraph Company

Floyd Lucien Robinson U 1890 New York City
Architect

Frank Crowl Robinson U 1904 Philadelphia, Pa.
Chemist

Ralph Chapman Rodgers G 1909* Ithaca, N. Y.
Instructor in Physics, Cornell University

Thomas Jacob Rodhouse G 1905 (Missouri F 1908) Columbia, Mo.
Assistant Professor of Engineering, University of Missouri

Ralph Burt Roe U 1907 Philadelphia, Pa.
Chemist, Atlantic Refining Company

Clarence Arthur Rogers F 1910 Ithaca, N. Y.
Assistant Professor of Poultry Husbandry, Cornell University

Frederick John Rogers F 1891* (Stanford CF 1902) Palo Alto, Cal.
Associate Professor of Physics, Leland Stanford Junior University

John Rogers F 1907 New York City
Professor of Clinical Surgery, Cornell University Medical College

Mary Farrand Rogers U 1896† Elizabeth, N. J.
(Mrs Wilhelm Miller)

Malcom Churchill Rorty U 1896 Edgeworth, Pa.
General Superintendent, Telephone Company

Harold Ellis Ross F 1911 Ithaca, N. Y.
Assistant Professor of Agriculture, Cornell University

Ida Adella Ross U 1900 Rome, N. Y.
(Mrs J Edwin Clark)

Mary Jane Ross U 1898* Binghamton, N. Y.
Physician

Ehrick Kensett Rossiter A 1888† New York City

Filebert Roth F 1900*† (Michigan F 1903) Ann Arbor, [Mich.
Professor of Forestry, University of Michigan

William Alphonso Rowe U 1903 Pittsburgh, Pa.
Manager, American Blower Company of Detroit

Willard Winfield Rowlee F 1891*† Ithaca, N. Y.
Professor of Botany, Cornell University

Daniel Royse G 1891 Chicago, Ill.
Editor

Joseph Heywood Russell U 1901 Boston, Mass.
Chemist, Marden, Orth and Hastings

Harris Joseph Ryan U 1887*† (Stanford F 1905) Palo Alto, Cal.
Professor of Electrical Engineering, Leland Stanford Junior University

Walter J Ryan U 1906 York, Neb.
Engineering Aide, U. S. Government

Henry Ryon U 1906 Brooklyn, N. Y.
Sanitary Engineer

George Holland Sabine G 1904 Palo Alto, Cal.
Assistant Professor of Philosophy, Leland Stanford Junior University

Lillian Belle Sage U 1901 Norwich, N. Y.
Teacher

Robert Warren Sailor U 1907 Chicago, Ill.
Salesman, Heywood Brothers and Wakefield Company

Richard Collier St. John U 1887 St. Louis, Mo.
Railway Engineer, Missouri Pacific Railroad

Daniel Elmer Salmon A 1887*† Montevideo, Uruguay
Director, Sección Veterinaria, University of Montevideo

Walter Edward Sanders U 1903 Trenton, N. J.
Mechanical Engineer

Edwin Nash Sanderson CG 1886 New York City
Engineer and Contractor, Sanderson and Porter

Ezra Dwight Sanderson U 1898*† Morgantown, W. Va.
Dean of Agriculture, University of West Virginia

Warren Bixby Sanford U 1901 New York City
Electrical Engineer

Shiro Sano G 1909 Tokyo, Japan
Professor of Electrical Engineering, Waseda University

Augustus Valentine Saph G 1902 San Francisco, Cal.
Civil Engineer with John Leonard

Erle Hoxsie Sargent U 1887 Fort Casey, Wash.
Physician

Samuel J Saunders G 1889*† Clinton, N. Y.
Professor of Physics and Astronomy, Hamilton College

Paul Louis Saurel G 1891* New York City
Associate Professor of Mathematics, College of City of New York

Will Miller Sawdon F 1906 Ithaca, N. Y.
Assistant Professor of Experimental Engineering, Cornell University

Ezra Frederick Scattergood G 1899 Los Angeles, Cal.
Electrical Engineer, Department of Public Service

James Walter Schade U 1904 Akron, Ohio
Chemist, Goodrich Rubber Company

Edward Franklin Schaefer G 1903
(Deceased 1908)

Charles Ashmead Schaeffer F 1887
(Deceased 1898)

Jacob Parsons Schaeffer G 1908* (Yale F 1911) New Haven, Conn.
Assistant Professor of Anatomy, Yale University

Margaret Everitt Schallenberger G 1899 San Jose, Cal.

William Henry Schideler G 1910 Ithaca, N. Y.

Max Gustav Schlapp F 1907 New York City
Lecturer in Pathology, Cornell University Medical College

Carl George Schluederberg G 1908 Pittsburgh, Pa.
Electrical Engineer

Ernest William Schoder G 1902* Ithaca, N. Y.
Assistant Professor of Experimental Hydraulics, Cornell University

William Ross Schoemaker G 1892 Manistique, Mich.
Baptist Clergyman

Daniel Ransom Scholes U 1904 Chicago, Ill.
Chief Engineer, Aermotor Company

Wandell B Secor U 1899 Trenton, Junction, N. J.
Teacher

George Daniel Shafer G 1907 (Stanford G 1906) East Lansing,
Research Entomologist, Michigan Agricultural College [Mich.

Philip Anderson Shaffer F 1910* (Washington F 1911) St. Louis, Mo.
Professor of Biological Chemistry, Washington University

Ira Alexander Shaler G 1888
(Deceased 1902)

Robert Louis Shape U 1895 New York City
Architect

Clayton Halsey Sharp G 1895* New York City
Test Officer, Electric Testing Laboratories

Stella Emily Sharp G 1898 Seneca Falls, N. Y.

Francis Robert Sharpe G 1906 Ithaca, N. Y.
Assistant Professor of Mathematics, Cornell University

William Francis Shaw U 1904 Hondo, Tex.

John Sanford Shearer U 1893* Ithaca, N. Y.
Professor of Physics, Cornell University

Janet May Sheldon U 1894 Williamstown, Mass.
(Mrs Theodore Frelinghuysen Collier)

Pearl Gertrude Sheldon U 1908 Ithaca, N. Y.
Assistant in Paleontology, Cornell University

Ralph Edward Sheldon U 1905* (Chicago G 1907) Pittsburgh, Pa.
Assistant Professor in Anatomy, University of Pittsburgh

George Defrees Shepardson G 1889*† (Minnesota CF 1896) Minneapolis,
Professor of Electrical Engineering, University of Minnesota [Minn.

Ernest Stanley Shepherd U 1902*† Washington, D. C.
Assistant in Geophysical Laboratory, Carnegie Institution

Franklin Sherman, Jr U 1900* Raleigh, N. C.
Entomologist, State Department of Agriculture

Frederick Elias Sherman U 1907
(Deceased)

Frank James Short G 1907
(Deceased 1909)

Richmond Harold Shreve G 1903 New York City
Architect

Surendra Nath Sil G 1907 Calcutta, India
Professor at Bengal College of Agriculture

Frederick William Simonds F 1887*† Austin, Tex.
Professor of Geology, University of Texas

Charles Baird Simpson G 1900
(Deceased 1907)

Howard Sard Simpson U 1896 Chicago, Ill.
Vice-President and Treasurer, G. Broes Van Dort Company

Sutherland Simpson F 1909* Ithaca, N. Y.
Professor of Physiology, Cornell University

Charles Herschel Sisam G 1904* (Illinois F 1906) Urbana, Ill.
Assistant Professor of Mathematics, University of Illinois

Mary Florence Wells Slater U 1900 Flushing, L. I., N. Y.
Teacher

Mark Vernon Slingerland U 1891*†
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William Griffith Sloan U 1899 New York City
Chief Engineer, MacArthur Brothers Company

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Director of Sibley College, Cornell University

Arma Anna Smith G 1896 West Camden, N. Y.

Charles Edward Smith G 1902* Golden, Col.
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Harold Babbitt Smith U 1891*† (Worcester CF 1908) Worcester, Mass.
Professor of Electrical Engineering, Worchester Polytechnic Institute

Harold Whitmore Smith U 1908 Adelaide, South Australia

Harry Ezra Smith CU 1886 College Station, Tex.
Assistant Professor of Mechanical Engineering, Texas Agricultural College

Lucy Wright Smith G 1911 Ithaca, N. Y.
Assistant in Biology, Cornell University

Philip Edward Smith G 1910 Ithaca, N. Y.
Instructor in Embryology, Cornell University

Ruby Green Bell Smith F 1905 (Stanford G 1904) Ithaca, N. Y.
(Mrs Albert William Smith)

Theobald Smith A 1887*† Boston, Mass.
Director, Rockefeller Institute for Medical Research

Earl Miner Sneckenberger U 1905 Billings, Mont.
Secretary, The Gerharz Engineering Company

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Julia Warner Snow U 1888* Northampton, Mass.
Associate Professor of Botany, Smith College

Ralph Cuthbert Snowdon G 1905* Niagara Falls, N. Y.
Research Chemist, Hooker Electrochemical Company

Virgil Snyder G 1892* Ithaca, N. Y.
Professor of Mathematics, Cornell University

Albert Alexander Somerville G 1910 Ithaca, N. Y.
Instructor in Physics, Cornell University

Edward Kirke Soper G 1909 Minneapolis, Minn.
Instructor in Economic Geology, University of Minnesota

Platon Vladimir Soukatschoff U 1901 Petrovsky, Kharcov, Russia
Engineer

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Carrie Ranson Squire G 1901* Superior, Wis.
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Albert Stamford G 1900 Norfolk, W. Va.
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Numan Reid Stansel G 1902 Schenectady, N. Y.
Commercial Engineer, General Electric Company

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Office of Experiment Stations, U. S. Department of Agriculture

Henry Freeman Steeker F 1901 State College, Pa.
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Herman Campbell Stevens G 1903* (Washington CF 1907) Seattle, [Wash.
Associate Professor of Psychology, University of Washington

Louisa Stone Stevenson G 1911 Wellesley, Mass.
Stone Hall, Wellesley College

George Walter Stewart F 1900*† (Iowa F 1910) Iowa City, Ia.
Professor of Physics, State University of Iowa

John Pogue Stewart G 1911 State College, Pa.
Experimental Pomologist, Pennsylvania State College

Oscar Milton Stewart G 1895*† (Missouri CF 1905) Columbia, Mo.
Professor of Physics, University of Missouri

Vern B Stewart G 1911 Ithaca, N. Y.
Investigator, Cornell University

William Alonzo Stocking, Jr F 1908* Ithaca, N. Y.
Professor of Dairy Industry, Cornell University

Bertha Stoneman U 1894 Wellington, Cape Colony
Professor of Botany, Huguenot College

Harry Frost Stratton U 1903 Cleveland, Ohio
Sales Manager, Electric Controller and Manufacturing Company

Cora Strong U 1903 Greensboro, N. C.
Associate in Mathematics, State Normal College

Anna Clegg Stryke G 1909 Ithaca, N. Y.
Artist and Assistant in Entomology, Cornell University

Arnold Valentine Stubenrauch G 1901 Washington, D. C.
Field Investigations, Bureau of Plant Industry

Mervin Tubman Sudler F 1903* (Kansas F 1904) Lawrence, Kan.
Associate Dean of Medical School, University of Kansas

Ellen Theresa Sullivan U 1901 La Grange, Ill.
Teacher of Botany, Lyons Township High School

Henry Elijah Summers A 1887*† Ames, Ia.
Professor of Zoology and State Entomologist, Iowa State College

James Malcomb Swaine G 1906* Ottawa, Canada
Assistant Entomologist, Division of Entomology

Frank Houston Swift G 1911 Cresswell, Ore.

George Walter Tailby, Jr U 1906 Ithaca, N. Y.
Instructor in Animal Husbandry, Cornell University

Jesse Moore Talmadge U 1897 New York City
Inspector and Chemist, Quartermaster's Department U. S. Army

John Henry Tanner U 1891*† Ithaca, N. Y.
Professor of Mathematics, Cornell University

Ralph Stockman Tarr F 1892*†
(Deceased 1912)

Robert Wilson Tassie U 1909 Adelaide, South Australia

Alfred Ernest Taylor G 1896 New York City
Chemist, U. S. Government

Hawley Otis Taylor U 1909 Ithaca, N. Y.
Instructor in Physics, Cornell University

Robert Cromwell Taylor U 1899 Pittsburgh, Pa.
Civil Engineer, Carnegie Steel Company

Walter Jennings Taylor U 1906 Albany, N. Y.
Assistant State Veterinarian

John Edgar Teeple U 1899* New York City
Consulting Chemist and Chemical Engineer

George Louis Terrasse U 1896 New York City
Superintendent, New York Tanning Extract Company

Horace Holden Thayer, Jr U 1900 Wilmington, Del.
Naval Architect

Alfred Henry Thiessen U 1898 Salt Lake City, Utah
Section Director, U. S. Weather Bureau

Charles Thom G 1903* Storrs, Conn.
Cheese Expert (Mycologist) U. S. Department of Agriculture

Carl Clapp Thomas G 1895*† (Wisconsin F 1908) Madison, Wis.
Professor in Steam and Gas Engineering, University of Wisconsin

Mason Blanchard Thomas U 1890* Crawfordsville, Ind.
Dean of Faculty and Professor of Botany, Wabash College

Melvern Francis Thomas G 1908 Ithaca, N. Y.
Instructor in Experimental Engineering, Cornell University

George Ellsworth Thompson G 1911 Ithaca, N. Y.
Assistant Instructor in Physics, Cornell University

Milton Ellsworth Thompson G 1891 Ridgway, Pa.

William Robin Thompson G 1911 Washington, D. C.
Expert, Bureau of Entomology, U. S. Department of Agriculture

William Crooks Thro U 1900* New York City
Assistant Professor of Pathology, Cornell Medical School

Robert Henry Thurston F 1887†
(Deceased 1903)

Arthur Henry Timmerman G 1893 St. Louis, Mo.
Chief Engineer, Wagner Electric Manufacturing Company

Charles Edward Timmerman G 1893 New York City
Teacher of Physics, DeWitt Clinton High School

Martin Buel Tinker F 1904 Ithaca, N. Y.
Physician

Edward Bradford Titchener F 1894*† Ithaca, N. Y.
Professor of Psychology, Cornell University

William Boardman Tobey U 1890
(Deceased 1896)

John William Todd U 1906 Pittsburgh, Pa.
Assistant Purchasing Agent, Crucible Steel Company of America

Leona Estelle Todd U 1903 Poughkeepsie, N. Y.
Physician, Hudson River State Hospital

Ernest Tompkins U 1898 Norristown, Pa.
Salesman, Wildman Manufacturing Company

Yau Hang Tong G 1908 Canton, China

William Martin Torrance A 1907 New York City
Consulting Engineer

Ashton Steven Tourison, Jr U 1901 Mt. Airy, Philadelphia, Pa.
Sedgwick Farms Company

Anna B Townsend U 1903 New York City
(Mrs Charles Walter Howard)

William Trelease A 1887*† St. Louis, Mo.
Director, Missouri Botanical Gardens, Professor of Botany, Washington University

Charles John Triggerson G 1910 Toronto, Canada

Alonzo George Trumbull U 1899 Cleveland, Ohio
Mechanical Superintendent, Erie Railroad Company

Orin Tugman G 1907* (Indiana G 1906) New York City
Engineer, Western Electric Company

Frederick Eugene Turneaure U 1889*† (Wisconsin CF 1907) Madison, Wis.
Dean of College of Engineering, University of Wisconsin

Ebenezer Tousey Turner G 1896 Ithaca, N. Y.
Vice-President, Morse Chain Company

John William Turrentine G 1908* Washington, D. C.
Scientist, Bureau of Soils

Dennie Hammond Udall U 1901 Ithaca, N. Y.
Professor of Veterinary Medicine, Cornell University

George Burr Upton U 1904 Ithaca, N. Y.
Assistant Professor of Experimental Engineering, Cornell University

James M Van Hook G 1902 (Indiana F 1906) Bloomington, Ind.
Assistant Professor of Botany, Indiana University

Carlos Whitney Van Law U 1896 Pachuca, Hidalgo, Mex.
General Manager, Compania de Real del Monte y Pachuca

Ernest Allen Van Vleck U 1897 New York City

Frank Van Vleck CF 1886 Baltimore, Md.
Baltimore Copper Smelting and Rolling Company

Samuel Matthews Vanclain U 1902 Rosemont, Pa.

John Arthur Veazey G 1910
(Deceased 1911)

Lucius Otto Veser U 1903 Connellsville, Pa.
Electrical Engineer

Thomas McElderry Vickers U 1890 Syracuse, N. Y.
Manager, Manufacturing Company

John Albert Vogleson U 1900 Philadelphia, Pa.
Chief, Bureau of Health of Philadelphia

Oscar Diedrich von Engeln U 1908 Ithaca, N. Y.
Instructor in Physical Geography, Cornell University

Hermann von Schrenk U 1893*† St. Louis, Mo.
Consulting Pathologist, Missouri Botanical Garden

Joel Edward Wadsworth U 1890 Yonkers, N. Y.
Resident Engineer, American Bridge Company

Chauncey William Waggoner G 1905* Morgantown, W. Va.
Professor of Physics, University of West Virginia

Edward Andrew Wagner U 1898 Fort Wayne, Ind.
Transformer Engineer, Fort Wayne Electric Works

Walter Calvin Wagner G 1911 Seattle, Wash.
Instructor in Electrical Engineering, University of Washington

John Cassan Wait A 1888† New York City
Lawyer

George Hicks Walbridge U 1890 Colorado Springs, Col.
General Manager, Central Colorado Power Company

Emory Lafayette Walker U 1902 Berlin, Wis.
Eastern Manager, Pacific Coast Condensed Milk Company

Ernest Walker U 1897* Fayetteville, Ark.
Professor of Horticulture, University of Arkansas

Perley F Walker G 1901* (Kansas F 1905) Lawrence, Kan.
Professor of Mechanical Engineering, University of Kansas

Errett Wallace G 1909 Washington, D. C.
Pathologist, U. S. Bureau of Plant Industry

William Lewis Wallace, Jr G 1907 Manitowoc, Wis.
Chief Engineer, Manitowoc Engineering Works Company

Albert Walton U 1902 Dorchester, Mass.
Commercial Engineer

Lee Barker Walton G 1902* Gambier, Ohio
Professor of Biology, Kenyon College

Archibald Robinson Ward U 1898* Manila, P. I.
Dean of College of Veterinarian Science, University of the Phillippines

Mary Margaretta Wardwell U 1888 Buffalo, N. Y.
Head of Mathematics, Central High School

George Frederick Warren G 1904* Ithaca, N. Y.
Professor of Farm Management, Cornell University

Mary (Whitson) Warren U 1905 Ithaca, N. Y.
(Mrs George Frederick Warren)

Frank Sherman Washburn A 1883 Nashville, Tenn.
President, American Cyanamid Company

Margaret Floy Washburn F 1902*† Poughkeepsie, N. Y.
Professor of Psychology, Vassar College

Floyd Rowe Watson G 1901* (Illinois CF 1903) Urbana, Ill.
Assistant Professor of Physics, University of Illinois

Thomas Leonard Watson G 1897*† Charlottesville, Va.
Professor of Geology, University of Virginia

Cassius Way U 1907 Howard, Ill.
Veterinarian, Borden's Condensed Milk Company

Alfred Cleveland Weed U 1905 Washington, D. C.
Aid in Biology, U. S. National Museum

Edgar Calvert Welborn U 1903 Milwaukee, Wis.
Assistant Treasurer, Allis-Chalmers Company

Stuart Weller U 1894*† (Chicago CF 1903) Chicago, Ill.
Associate Professor of Geology, University of Chicago

Thomas Whitney Benson Welsh G 1909 Ithaca, N. Y.
Instructor in Chemistry, Cornell University

Erastus Lovette West U 1899 Boston, Mass.
General Manager, Connecticut River Power Company

George Hutton West U 1901 Reber, N. Y.
Breeder of Holstein Cattle

John Van Etten Westfall G 1899* (Iowa CF 1900) New York City
Superintendent of Bureau of Statistics, Equitable Life Assurance Society

Herbert Hice Whetzel G 1903* Ithaca, N. Y.
Professor of Plant Pathology, Cornell University

Guy Montrose Whipple F 1900* Ithaca, N. Y.
Assistant Professor of Education, Cornell University

Ray Hughes Whitbeck U 1901 Madison, Wis.
Associate Professor of Physiography and Geography

Gershom Franklin White G 1905* Washington, D. C.
Expert Bacteriologist, U. S. Department of Agriculture

Gorrell Robert White U 1905 Ithaca, N. Y.
Instructor in Chemistry, Cornell University

James Gilbert White A 1888† New York City
President, J. G. White Construction Company

Paul J White G 1907 Pullman, Wash.
Professor of Agronomy, State College of Washington

Ward Benjamin White G 1908 Ithaca, N. Y.
State Chemist, State Department of Agriculture

Walter Porter White G 1903*† Washington, D. C.
Physicist, Geophysical Laboratory

Francis Luther Whitney U 1906 Akron, Ohio
Professor, Buchtel College

Mary Whitson U 1905 Ithaca, N. Y.
(Mrs George Frederick Warren)

Theodore Whittelsey F 1899* Mishawaka, Ind.
Chief Chemist, Rubber Regenerating Company

Frances Gertrude Wick G 1906* Poughkeepsie, N. Y.
Instructor in Physics, Vassar College

Maude (Cipperly) Wiegand U 1904 Wellesley, Mass.
(Mrs Karl McKay Wiegand) Instructor in Botany, Wellesley College

Karl McKay Wiegand U 1894* Wellesley, Mass.
Associate Professor of Botany, Wellesley College

David Truxton Wilber G 1911 Ithaca, N. Y.
Graduate Student in Geology, Cornell University

J Ralph Wilbur U 1897 Chicago, Ill.
Fire Insurance

Perley Smith Wilcox U 1897 Rochester, N. Y.
Manager

Edward Lyman Wilder U 1902 Rochester, N. Y.
Electrical Engineer, Rochester Railway and Light Company

Herbert Sedgwick Wilgus U 1901 Angelica, N. Y.
Engineer, Pittsburgh, Shawmut and Northern Railway

Stephen Franklin Willard U 1909 Western Springs, Ill.
Vaughan's Seed Store

Mary Alice Willcox G 1892† Wellesley, Mass.
Professor Emeritus of Zoology, Wellesley College

Alan Gillespie Williams U 1903 Altoona, Pa.
Engineer

Gardner Stewart Williams F 1901*† (Michigan F 1903) Ann Arbor, Mich.
Consulting Engineer

Harvey Daniel Williams F 1894 New York City
Consulting Engineer

Henry Shaler Williams CF 1886*† (Yale CF 1895) Ithaca, N. Y.
Professor of Geology, Cornell University

Roger Butler Williams, Jr U 1901 Ithaca, N. Y.
Receiver, New York, Auburn and Lansing, and Ithaca Street Railroad

Walter Long Williams F 1897*† Ithaca, N. Y.
Professor of Veterinary Surgery, Cornell University

Robert Baird Williamson U 1893 Milwaukee, Wis.
Electrical Engineer, Allis-Chalmers Company

John Gordon Wills U 1906 Albany, N. Y.
Chief Veterinarian, N. Y. Department of Agriculture

Arthur John Wilson G 1911 Galesburg, Ill.
Professor of Chemistry, Lombard College

Charles Scoon Wilson G 1905* Ithaca, N. Y.
Professor of Pomology, Cornell University

David Wilson U 1905 Amsterdam, N. Y.
Physician

John Crosier Wilson U 1906 Milwaukee, Wis.
Engineer, The Cutler-Hammer Manufacturing Company

Margaret Boynton Windsor U 1895 Urbana, Ill.
(Mrs Phineas Lawrence Windsor)

Charles Benjamin Wing CG 1887*† (Stanford CF 1902) Palo, Alto, Cal.
Professor of Engineering, Leland Stanford Junior University

Henry Hiram Wing F 1888*† Ithaca, N. Y.
Professor of Animal Husbandry, Cornell University

Florence MacLean Winger G 1901* Urbana, Ill.
(Mrs William Chandler Bagley)

Rhett Youmans Winters G 1911 Ithaca, N. Y.
Instructor in Agriculture, Cornell University

William Alphonso Withers G 1890*† Raleigh, N. C.
Professor of Chemistry, College of Agriculture and Mechanic Arts

Russell Sage Woglum U 1904* Washington, D. C.
Bureau of Entomology, U. S. Department Agriculture

Peter Irving Wold G 1908 Peking, China
Professor of Physics, Chin Hua College

Charles George Lewis Wolf F 1907*† New York City
Assistant Professor in Chemistry, Cornell University Medical College

Eugene Harper Wood F 1907 Ithaca, N. Y.
Professor of Machine Design, Cornell University

Harrison Haskell Wood U 1892 Pittsburgh, Pa.
Manager, Broom Sewing Machine Company

Herbert Spencer Wood U 1902 Washington, D. C.
Accountant, Commission on Economy and Efficiency

Samuel Hamilton Woods U 1906 Hoboken, N. J.
Instructor, Stevens Institute of Technology

Albert Hazen Wright U 1904* Ithaca, N. Y.
Instructor in Zoology, Cornell University

Floyd Robins Wright G 1899 Ithaca, N. Y.
Physician

Richard Avery Wright U 1905 Brooklyn, N. Y.
Engineer

Alanson Phelps Wyman U 1897 Minneapolis, Minn.
Landscape Architect

Shiro Yamazaki U 1902 Yamato, Japan
Consulting Engineer

John Mason Young U 1902 Honolulu, H. I.
Professor of Engineering, College of Hawaii

John Wesley Young G 1901* (Northwestern CF 1906) Hanover, N. H.
Head of Department of Mathematics, Dartmouth College

Carl Abell Zeller G 1909 Pittsburgh, Pa.
Instructor in Physics, High School

BETA CHAPTER

Stevens Institute of Technology, Hoboken, New Jersey

Charter Granted May, 1887 — Defunct

HISTORICAL SKETCH

The Chapter was organized with four members of the class of 1884 and one instructor; and only one initiation occurred, one member being elected from the class of 1887. The Chapter existed only during the spring months of the latter year and upon the graduation of this one member, went out of existence.

CHARTER MEMBERS

William Oliver Barnes
William Henry Bristol
Benjamin F Hart
Charles W Thomas
Benjamin J Tucker

MEMBERSHIP ROLL

William Oliver Barnes — C 1887 — Fitchburg, Mass.
Mechanical Engineer, Ivers-Johnson Arms and Cycle Works

William Henry Bristol — C 1887*† — Waterbury, Conn.
President, The Bristol Company

Benjamin F Hart — C 1887 — New York City
B. F. Hart Jr. and Company

Charles W Thomas — C 1887 — New York City
Mechanical Engineering Department, Columbia University

Burton Morss Tremper — U 1887 — Kingston, N. Y.
Merchant

Benjamin J Tucker — C 1887 — New York City
Consulting Mechanical Engineer

DELTA CHAPTER

Rutgers College, New Brunswick, New Jersey

Charter Granted February, 1887 Defunct

HISTORICAL SKETCH

The exact date of the establishment of the Chapter at Rutgers College is unknown. The five charter members associated with themselves four members of the faculty and four students. The Chapter had a very brief existence and the officers whose names are printed in the earliest record of Sigma Xi seem never to have performed the functions of their positions. Diligent search has brought to light only a manuscript copy of the Constitution and By-Laws of Sigma Xi, filed with material left at the College by departing members of various organizations. Phi Beta Kappa was already firmly established at Rutgers and in the opinion of faculty members the scientific department was too small to support a second organization.

CHARTER MEMBERS

Thurston Walker Challen
Harry Atwater Smith
D T Marshall
Burton Morss Tremper
Isaac Lewis Winckler

OFFICERS FOR 1887-1888

President.....Francis Cuyler van Dyck
Secretary.....William Bishop Tompkins

MEMBERSHIP ROLL

Edward Mooee Alden	U 1887	Millers Falls, Mass.
Peter Townsend Austen (Deceased)	F 1887†	
Edward A Bowser (Deceased)	F 1887†	
Thurston Walker Challen (Deceased)	C 1887	
Harry Joseph March	U 1887	Buffalo, N. Y.
	Assistant Engineer, Department of Public Works	
D T Marshall	C 1887	Hollis, L. I., N. Y.
	Physician	

Harry Atwater Smith C 1887
(Deceased)

William Bishop Tompkins U 1887
(Deceased)

Burton Morss Tremper C 1887 Kingston, N. Y.
Merchant

Francis Cuyler Van Dyck F 1887*† New Brunswick, N. J.
Dean, Professor of Physics and Experimental Mechanics, Rutgers College

Cornelius Clarkson Vermuele U 1887† Trenton, N. J.
U. S. Geological Survey

Francis Augustus Welber F 1887
(Deceased)

Isaac Lewis Winckler C 1887 Cleveland, Ohio
Teacher of Mathematics, Central High School

RENSSELAER CHAPTER

Rensselaer Polytechnic Institute, Troy, New York

Charter Date Unknown Chapter Installed May 6, 1887

HISTORICAL SKETCH

The Rensselaer Chapter of the Society of the Sigma Xi, originally designated the Zeta Chapter, was established May 6, 1887, at the Rensselaer Polytechnic Institute, Troy, N. Y. The charter membership consisted of seven undergraduates from the senior and junior classes.

This Chapter having been established only six months after the founding of the Society, the installation undoubtedly lacked the formality and importance which attach to the ceremony of the present day; in fact, the Chapter has no account of the installation exercises. The earliest record now in its possession pertains to a meeting held on June 9, 1887, at which time three members of the faculty were elected to membership.

For fifteen years the Chapter was composed of from eight to ten faculty members and such undergraduate students as were deemed worthy of election. This election, usually occurring in April, did not enable the new members to derive much direct benefit from association with the other members of the Society, but to be numbered among the few selected was considered by the student body an honor earnestly to be sought. As there was but one course of study at the Institute, and that arranged to fit the needs of the civil engineer, the selection of members has been based on the promise given of future success in the investigations which are directly connected with the profession of engineering, and the measure of success attained by the graduate members of the Chapter would indicate that their selection had been wisely made.

The phenomenal growth of the Rensselaer Polytechnic Institute during the past seven years—the student attendance having increased from about two hundred to over six hundred—and the establishment in the year 1908 of the new courses of Mechanical and Electrical Engineering have infused new life into the Chapter; the faculty membership has more than doubled and there has been a somewhat similar increase in the student membership. In consequence of these recent important additions to the courses and the superior facilities for study now offered the student in these departments, we look forward to a marked increase in the activity of our Chapter, a wider field of work, and a larger association of resident and undergraduate students who are interested in the investigations which lead to the practical application of science to the continued development of the country's industries.

E. F. C.

OFFICERS FOR 1911–12

President.....Edward Richards Cary
Vice-President.....Albert Gustave Walter
Recording Secretary.....Charles Henry Andros
Corresponding Secretary.....Edward Fenemore Chillman
Treasurer.....Edward Fenemore Chillman
Councilor.....Charles Winthrop Crockett

MEMBERSHIP ROLL

Walter Russell Abbott U 1909 Waterford, N. Y.
Leveler, New York State Barge Canal

William Henry Adey U 1895 Albany, N. Y.
Assistant Engineer, Delaware and Hudson Company

Hugh McVean Anderson F 1898 Irondequoit, N. Y.
Civil Engineer

Charles Henry Andros U 1907 Troy, N. Y.
Assistant in Descriptive Geometry, Rensselaer Polytechnic Institute

Hiley Newton Armer U 1909 Albany, N. Y.
Rodman, New York State Highway Commisson

Emil Asseln U 1899 Steelton, Pa.
Engineer, Pennsylvania Steel Company

Jay Arthur Auringer U 1906 Brooklyn, N. Y.
Draftsman, Empire Bridge Company

Charles David Babcock U 1909 Troy, N. Y.
Assistant in Mathematics and Surveying, Rensselaer Polytechnic Institute

Walter Peter Backes U 1911 Memphis, Tenn.
Engineer in Contracting Department, Virginia Bridge and Iron Company

Edward Christian Henry Bantel U 1897 Austin, Tex.
Associate Professor of Civil Engineering, University of Texas

Charles Whitney Tillinghast Barker U 1903 Philadelphia, Pa.
President, Field, Barker and Underwood, Inc., Engineers and Contractors

Frank Edwin Barnes U 1898 New York City
Engineer, A. E. Stephens Company

Charles Ridgely Barnett, Jr U 1903 Baltimore, Md.
Member of Firm, Hopkins-Barnett Company, Contracting Engineers

Charles Abercrombie Dunbar Bayley U 1900 New York City
Supervisor, Construction Department, J. G. White and Company

Frederick Armour Beardsley U 1911 New York City
Assistant Engineer, Viele, Blackwell and Buch, Engineers

Walter Douglas Beardsley U 1911 New York City
Assistant Engineer, Viele, Blackwell and Buch, Engineers

Donald Neil Becker U 1908 Chicago, Ill.
Designer, Engineering Department, Chicago, Milwaukee and St. Paul Railway

Paul Beer U 1900 Des Moines, Ia.
Manager, Barber Asphalt Paving Company

Harold Smith Beers U 1907 Niagara Falls, N. Y.
Assistant Engineer, Ontario Power Company

George Alfred Bell, Jr U 1900 Marion, Ind.

James Clark Bell U 1906 Schenectady, N. Y.
Assistant Engineer, New York State Barge Canal

Franklyn Edward Belmont U 1907 New York City
Structural Draftsman, Public Service Commission

William Joseph Bergen U 1897 Cleveland, Ohio
First Assistant to Chief Engineer, New York, Chicago and St. Louis Railway

James Wartelle Billingsley U 1902 New Orleans, La.
Manager, New Orleans Office, The Fred A. Jones Company, Engineers

Edward Freyling Black U 1904 Foochow, China
Dean, Department of Engineering, Anglo-Chinese College

Frank Joseph Blair, Jr U 1907 Society Hills, S. C.
Resident Manager, The Ferguson Contracting Company

Carl Augustus Bostrom U 1901 Washington, D. C.
Assistant Civil Engineer, United States Navy

Theodore James Bradley U 1904 Albany, N. Y.
Professor of Mathematics, Albany Academy

George Chester Britton U 1907 Rochester, N. Y.
Draftsman, State Engineer's Department

Harry Baldwin Brown U 1911 Wilton, N. Y.
Assistant Engineer on Construction, Metropolitan Life Insurance Company

Nimrod Washington Long Brown U 1892 Thomasville, Ala.
Managing Proprietor, Thomasville Mill and Storage Company

Robert King Brown, Jr CU 1887 Salt Lake City, Utah
Engineer M. of W., San Pedro, Los Angeles and Salt Lake City Railroad

Elmer James Bucknell U 1892
(Deceased 1895)

Thomas Edward Butterfield U 1897 Philadelphia, Pa.
Chief Engineer, Otto Gas Engine Works

Charles Dow Calkins U 1909 Troy, N. Y.
Assistant in Mathematics and Surveying, Rensselaer Polytechnic Institute

Alejo Augustin Carrèno U 1903 Carrèno, Cuba
General Manager, Covadonga Sugar Manufacturing Company

Edward Fairbank Carter U 1907 Victoria Harbor, Canada
Engineer, Metcalf Engineering Company of Chicago

Edward Richards Cary F 1905 Troy, N. Y.
Professor of Geodesy and Road Engineering, Rensselaer Polytechnic Institute

Ramón Ramos Casellas U 1905 Arecibo, Porto Rico
City Engineer

Dan Woleaver Chamberlin U 1907 Syracuse, N. Y.
Assistant Engineer, New York State Highway Commission

Frank Taylor Chambers U 1892 Norfolk, Va.
Civil Engineer, United States Navy Yard

Ralph Hamilton Chambers U 1892 New York City
With The Foundation Company

Eduardo Justo Chibas U 1888 Santiago de Cuba, Cuba
General Engineering Practice

Edward Fenemore Chillman U 1888 Troy, N. Y.
Associate Professor of Descriptive Geometry, Rensselaer Polytechnic

Clarence Lee Clark U 1911 Troy, N. Y.
Secretary, Rensselaer Union Club

Elwyn Maxson Clark U 1904 Troy, N. Y.
Assistant in Mathematics and Surveying, Rensselaer Polytechnic Institute

John Andrew Clark U 1887 Wilmington, Del.
Civil Engineer

LeRoy Walter Clark U 1906 Troy, N. Y.
Assistant in Rational and Technical Mechanics, Rensselaer Polytechnic

Hays Hutchinson Clemens U 1907 Erie, Pa.
Factory Engineer, Hays Manufacturing Company

Sanford Lockwood Cluett U 1898 Hoosick Falls, N. Y.
Vice-President and Secretary, W. A. Wood Company

Archie Lyman Colby U 1887 Walkerville, Ont.
Manager of Construction, Canadian Bridge Company, Ltd.

Allan DeWitt Colvin U 1906 Hartford, Conn.
Assistant to Manager, Hartford Electric Light Company

Charles Irving Colyer U 1899 New York City
Superintendent, The Guarantee Construction Company

James Monroe Cook, Jr U 1898 Johnstown, Pa.
Assistant Superintendent, Mining Department, Cambria Steel Company

Burgis Greenacre Coy U 1904 Fort Collins, Col.
Resident Engineer, Laramie-Poudre Irrigation Company

David Cushman Coyle U 1910 Phoenixville, Pa.
Designer, Phoenix Bridge Company

Charles Winthrop Crockett F 1889* Troy, N. Y.
Professor of Mathematics and Astronomy, Rensselaer Polytechnic Institute

Samuel Brice Curfman U 1893
(Deceased 1909)

Oscar Frederick Dalstrom U 1901 Chicago, Ill.
Bridge Department, Chicago and Northwestern Railway

Reuben Davis U 1903 New York City
With The Foundation Company

Harry Johnson Deutschbein U 1903 Albany, N. Y.
Superintendent of Water Works

John William Doty U 1902 Troy, N. Y.
Chief Engineer, The Foundation Company

Walter Louis DuMoulin U 1908 Morenci, Ariz.
Superintendent, The Morenci Water Company

William Easby, Jr U 1890 (Pennsylvania F 1900) Philadelphia, Pa.
Professor of Municipal Engineering, University of Pennsylvania

George Ezra Ellis U 1892 Kansas City, Mo.
Signal Engineer, Kansas City Terminal Railway

William Chester Emigh U 1909 Purling, N. Y.
Consulting Engineer

Myron Edward Evans U 1895
(Deceased 1907)

Elmer Selah Farwell U 1891 Kansas City, Mo.
Consulting Engineer

Harvey Feldmeier U 1892 Little Falls, N. Y.
Mechanical Engineer, D. H. Burrell and Company

Alan McPherson Ferebee U 1904 New Westminster, B. C.
Resident Engineer, Sula Island Bridge

Edwin Stanton Fickes U 1893 Pittsburgh, Pa.
Chief Engineer and Purchasing Agent, Aluminum Company of America

Walter George Filer U 1890 Salt Lake City, Utah
General Manager, Twin Falls Land and Water Company

Frederick William Firth U 1902
(Deceased 1905)

Joseph Firth U 1901 Charlotte, N. C.
City Engineer

Burtner Fleeger U 1910 Pittsburgh, Pa.
Engineer, Pittsburgh Steel Foundry Company

Ernest Gray Freeman U 1888
(Deceased 1900)

Robert Samuel Furber U 1909
(Deceased 1911)

Howard Tompkins Gardenier U 1907 Syracuse, N. Y.
Secretary and Treasurer, The B. F. Brown Gas Engine Company

Leslie Holmes Garlinghouse U 1910 Ambridge, Pa.
Draftsman, American Bridge Company

Arthur Leon Giblin U 1891
(Deceased 1894)

Arthur Maurice Greene, Jr F 1908† (Pennsylvania F 1900) Troy, N. Y.
Professor of Mechanical Engineering, Rensselaer Polytechnic Institute

Vernon Hill Gridley U 1893
(Deceased 1896)

George Swetland Groesbeck U 1888 New York City
Consulting Engineer, New York, Westchester and Boston Railway

Edward Joseph Gugerty U 1899 Middletown, Conn.
Resident Engineer, Lederle and Provost

James Dickey Hailman CU 1887 Pittsburgh, Pa.
Retired

Edward Parmelee Hamilton U 1907 Shelburne Falls, Mass.
Assistant Engineer, Power Construction Company

Shortridge Hardesty U 1908 Kansas City, Mo.
Drafstman, Waddell and Harrington, Engineers

Norman Gladding Hardy U 1910 Cananea, Sonora, Mex.
Testing Engineer, Mechanical Engineering Department, C. C. C. Company

George Albert Harrison U 1910 Wellsboro, Pa.
Civil Engineer

William Ralston Headden U 1904 Troy, N. Y.
Assistant in Mathematics, Rensselaer Polytechnic Institute

Fred George Hechler F 1909 (Missouri U 1908) Troy N. Y.
Assistant in Mechanical Engineering, Rensselaer Polytechnic Institute

Philip Walter Henry CU 1887 New York City.
Consulting Engineer

Byron Voltaire Herden U 1909 Buffalo, N. Y.
Consulting Engineer, Tupfer and Remick

Abraham Lincoln A Himmelwright CU 1887 New York City
Consulting and Supervising Engineer

Edward Mills Hoadley U 1889 Richmond, Va.
Civil Engineer

Richard Hayden Hood U 1887 New York City
Engineer and Contractor (retired)

John Smith Hoover U 1906
(Deceased 1907)

Matthew Albert Hunter F 1909* Troy, N. Y.
Assistant Professor of Electro-chemistry and Physics, Rensselaer Polytechnic

Herbert Armstrong Jaggard U 1889 Elmira, N. Y.
Superintendent, Pennsylvania Railroad

James Edgar Jenkins U 1904 New York City
Engineer, Grant, Smith and Company

Edward Crosby Jones F 1910 (Columbia U 1908) Troy, N. Y.
Assistant in Electrical Engineering and Physics, Rensselaer Polytechnic

Walter Everett Jones U 1901 Chicago, Ill.
Manager, Roebling Construction Company

Harry Edson Judd U 1902 Keokee, Lee Co., Va.
Superintendent, Keokee Coal and Coke Company

John Francis Kelly U 1910 Albany, N. Y.
Testing Engineer, The Federal Signal Company

Walter Lockwood Kelly U 1904 Salt Lake City, Utah
General Superintendent, O. and J. McDonald Contracting Company

Theodore Ely Knowlton U 1891 New York City
Consulting Engineer

Frederick Charles Koerner, Jr. U 1906 Waterford, N. Y.
Assistant Engineer, New York State Barge Canal

Guy Theodore Kuntz U 1911 St. Louis, Mo.
With R. Y. Patterson

Thomas R Lawson U 1898 Troy, N. Y.
Professor of Mechanics, Rensselaer Polytechnic Institute

Hugh Case Leibee U 1907 Yankton, S. D.
City Engineer

Azariah Thomas Lincoln F 1909*†(Illinois F 1903) Troy, N. Y.
Assistant Professor of Chemistry, Rensselaer Polytechnic Institute

Antonio Llano U 1889 New York City
Director, Spanish Department, International Correspondence Schools

Julius Alfred Ludwig U 1888 New York City
Civil Engineer

Cuyler Warfield Lush U 1905 New York City
Engineer, T. M. McLeod Company, Contractors

Jesse Albert Martin U 1900
(Deceased 1901)

John Lowrey Martin U 1893 Scranton, Pa.
Director of Instruction, International Correspondence Schools

William Pitt Mason F 1887*† Troy, N. Y.
Professor of Chemistry, Rensselaer Polytechnic Institute

James McGiffert, Jr U 1891 Troy, N. Y.
Assistant Professor of Mathematics, Rensselaer Polytechnic Institute

Louis Zerega Mearns U 1909 Baltimore, Md.
Assistant Chief Engineer, Baltimore Sewerage Commission

Herbert Eugene Miller U 1909 Brown's Station, N. Y.
Inspector, Board of Water Supply for New York City

Howard Guy Millington U 1908 Pullman, Wash.
Instructor in Engineering, Washington State College

Liberty Gilbert Montony U 1889
(Deceased 1909)

Lewis Ferry Moody F 1909 (Pennsylvania U 1901) Troy, N. Y.
Assistant Professor of Mechanical Engineering, Rensselaer Polytechnic

James Warren Morgan U 1903 Lewiston, N. Y.
Agriculturist

John Hays Myers U 1893 New York City
Engineer, Public Service Commission

Frank Lewis Nason F 1887*† West Haven, Conn.
Geologist

Charles Herbert Neel U 1906 Santa Fe, N. M.
Territorial Road Engineer

Julio Garzon Nieto U 1893 Bogota, Colombia
Chief Engineer, Coast and Geodetic Survey

Kenneth Howard Osborn U 1908 Cleveland, Ohio
Concrete Inspector, City Department of Buildings

Grant Knauer Palsgrove U 1911 Troy, N. Y.
Assistant in Mechanical Engineering, Rensselaer Polytechnic Institute

Wainwright Parish CU 1887 New York City
Parish and Schroeder, Architects

John Calvin Peck U 1907 Albany, N. Y.
Commercial Engineer's Office, New York Telephone Company

Halsey Beecher Pomeroy U 1887
(Deceased 1897)

William Joseph Popp U 1909 New York City
With Shanley-Morrisey, Inc.

Frank Donald Porter U 1906 Albany, N. Y.
Assistant Engineer, State Conservation Commission.

Winfield Scott Potter U 1890 New York City
Vice-President, Manganese Steel Rail Company

Victor Taylor Price CU 1887 Cincinnati, Ohio
District Manager, Buckeye Engine Company

Louis Blackmer Puffer U 1909 Troy, N. Y.
Instructor in Mathematics, Rensselaer Polytechnic Institute

Francisco Pujals Y Claret U 1909 Havana, Cuba
Civil Engineer, T. L. Huston Contracting Company, Engineers and Architects

Walther Raster U 1900 Chicago, Ill.
Office Manager, E. C. and R. M. Shankland, Civil Engineers

William Galt Raymond F 1895*† (Iowa F 1905) Iowa City, Ia.
Dean of College of Applied Science, State University of Iowa

Paul Lyon Reed U 1893 Washington, D. C.
Civil Engineer, U. S. Navy, Bureau of Yards and Docks

Octavio Mario Reyes U 1895 Bogota, Colombia
Merchant

Winfred Everett Reynolds U 1903 New York City
Assistant Engineer, John H. Gray Company

Edward Young Rice U 1911 Troy, N. Y.
Assistant, Electrical Engineering and Physics, Rensselaer Polytechnic

Edward Dunbar Rich U 1895 Ann Arbor, Mich.
Assistant Professor of Civil Engineering, University of Michigan.

Palmer Chamberlain Ricketts CF 1887*† Troy, N. Y.
President, Rensselaer Polytechnic Institute

James Walter Rickey U 1894 Massena, N. Y.
Chief Engineer, Long Sault Development Co. and St. Lawrence Power Co., Ltd.

George Newton Riker U 1908 New York City
With James Stewart and Company

William Lispenard Robb F 1905* Troy, N. Y.
Professor of Electrical Engineering and Physics, Rensselaer Polytechnic

Arthur Wirt Robinson U 1897 Bridgeport, Conn.
Sales Manager, Locomobile Company of America

James Vincent Rockwell U 1898 Charleston, S. C.
Civil Engineer, United States Navy

Charles Edwin Rogers U 1896 Hartford, Conn.
Professor of Civil Engineering, Trinity College

Alston Orange Rose U 1911 Walton, N. Y.

Harry Harwood Rousseau U 1891† Culebra, C. Z.
Civil Engineer, Isthmian Canal Commission

William White Rousseau, Jr U 1895 Troy, N. Y.
Assistant in Geodesy, Rensselaer Polytechnic Institute

Edward Irvine Rudd U 1905 Boston, Mass.
Assistant Engineer, Boston and Albany Railroad

Edgar Kingsbury Ruth U 1909 Cincinnati, Ohio
Assistant Engineer, Kaps-Brehm Company

Frederick Augustus Sabbaton U 1892 Grand Mere, Ont.
Assistant Manager, Laurentide Company

Charles George Schade U 1892 Canonsburg, Pa.
Bridge Engineer, Fort Pitt Bridge Company

Carl William Schedler U 1910 Shepardstown, W. Va.
Construction Engineer

Edward Delavan Nelson Schulte F 1908 Troy, N. Y.
Associate Professor of Engineering, Rensselaer Polytechnic Institute

Gerd Hayen Schulte U 1908 Manila, P. I.
District Engineer, Bureau of Public Works

Carl Julius Schumann U 1902 Brooklyn, N. Y.
Secretary, Moller and Schumann, Varnish Manufacturers

George Corliss See U 1905 Albany, N. Y.
Assistant Engineer, New York State Highway Commission

Robert Erwin Sheal U 1893 Cleveland, Ohio
With The Wellman-Seaver-Morgan Company

Ralph Harrison Sherry F 1908 (Stanford G 1905) Buffalo, N. Y.
Metallurgist, Pierce Arrow Motor Car Company

Harry Shoemaker U 1904 Mechanicsville, N. Y.
Assistant Engineer, New York State Barge Canal

Alfred Gale Slatcher U 1908 Troy, N. Y.
With T. L. Huston Contracting Company

Harrison Smith U 1905 New Orleans, La.
Superintendent, Wells Brothers Company of New York

Pemberton Smith U 1888 Buenos Aires, Argentina
General Representative, United States Steel Products Export Company

Arthur Porter Smyth U 1910 Helena, Mont.
Junior Engineer, United States Reclamation Service

Earl Eugene Sperry U 1904 Syracuse, N. Y.
Assistant Civil Engineer, Solvay Process Company

David Brier Taylor U 1909 Troy, N. Y.
Assistant Superintendent, Electrical Department, Troy Gas Company

Samuel Richards Thomas U 1891 Hokendauqua, Pa.
Superintendent, Ironton Railroad

Alfred Whittecar Thompson U 1907 Erie, Pa.
Architectural Engineer, General Electric Company

Clark Wallace Thompson U 1887 Cascade Locks, Ore.
Vice-President and General Manager, Wind River Lumber Company

Dwinel Burt Thompson U 1907 Troy, N. Y.
Graduate Student, Rensselaer Polytechnic Institute

Dwinel French Thompson F 1905 † Troy, N. Y.
Professor of Descriptive Geometry, Rensselaer Polytechnic Institute

Gordon Saxton Thompson U 1905 Troy, N. Y.
Assistant in Mechanics, Rensselaer Polytechnic Institute

Harold Grant Thompson U 1898 Albany, N. Y.
Principal Assistant Engineer, Federal Signal Company

Mackay James Thompson U 1893 St. Paul, Minn.
Farm Land Securities

John Edmund Tonnelier U 1911 Wernersville, Pa.

Walter James Towne U 1895 Chicago, Ill.
Engineer, Chicago and Northwestern Railway

Benjamin Mitchell Turner U 1888 Troy, N. Y.
Master Mechanic, Burden Iron Company

Daniel Lawrence Turner U 1891 New York City
Chief of Bureau Transit Inspection, Public Service Commission

James Foster Tuthill U 1898 New York City
With J. G. White and Company

James Foster Tuthill U 1898 Shelburne Falls, Mass.
Resident Engineer, Dam No. 2, Power Construction Company

Wilmer Charles Van Duyne U 1907 East Orange, N. J.
Chief Engineer, East Orange and Ampere Land Company

Paul Adolf Volcker U 1911 Lyons, N. Y.
Rodman, New York State Barge Canal

Henry Belin Voorhees U 1896 Baltimore, Md.
General Superintendent of Transportation, Baltimore and Ohio Railroad

Richard George Wagner U 1887 Milwaukee, Wis.
President, Wisconsin Sugar Company

Albert Gustave Walter U 1911 Pensacola, Fla.
Draftsman, Gulf, Florida and Alabama Railway

Frederick Joseph Walter U 1910 Aberdeen, S. D.
With R. B. Easton, Civil Engineer

George Merritt Ward U 1907 New York City
President and General Manager, George M. Ward Company, Inc.

Webster Earle Waterbury U 1910 Albany, N. Y.
Highway Inspector, New York State Highway Commission

Clarence Bingham Watkins U 1903 Pittsburgh, Pa.
Contractor

Frank Roderic Weaver U 1909 Johnstown, Pa.
Engineer, The Lorain Steel Company

John Leroy Weber U 1910 Troy, N. Y.
Assistant in Electrical Engineering, Rensselaer Polytechnic Institute

William Earl Whitney U 1896 Troy, N. Y.
Joint Proprietor, West Side Structural Company

Eugene B Wilhelm U 1908 Detroit, Mich.
Engineer, Grand Lawn Cemetery Association

William MacIlhenny Wilkinson U 1910 Philadelphia, Pa.
With M. Ward Easby, Constructing Engineer

Wyant James Williams U 1905 Troy, N. Y.
Instructor in Electrical Engineering and Physics, Rensselaer Polytechnic

Frank J. Willson U 1911 Troy, N. Y.
Assistant in Mechanical Engineering, Rensselaer Polytechnic Institute

Joseph Franklin Witmer U 1887 Buffalo, N. Y.
Hydraulic and Sanitary Engineer, Chapin Block

Albert William Zahnleiter U 1908 Pittsburgh, Pa.
Estimator, Riter-Conley Manufacturing Company

Carolus Hermann Zane-Cetti U 1897 Fort Worth, Tex.
Civil Engineer

THETA CHAPTER

UNION COLLEGE, SCHENECTADY, NEW YORK

Charter Dated 1887 Chapter Installed 1887

HISTORICAL SKETCH

Theta Chapter was organized and received its charter in 1887. The establishment of the Chapter was due largely to the efforts of Professor Charles Carroll Brown, who was then Professor of Civil Engineering at Union College, and it has since enjoyed a prosperous career. Several meetings have been held each year for the transaction of regular business, the presentation of papers and the discussion of scientific subjects. Unfortunately the proceedings have never been published.

The Chapter has always been conservative in the election of new members. For this reason selection for membership to Sigma Xi is highly appreciatel by our students.

Through the efforts of our president, Doctor James H. Stoller, a directory of Theta Chapter was published in 1907. This directory gives a brief history of each member, his membership in learned societies, and his contributions and publications on scientific subjects.

J. H. C.

PUBLICATIONS

Catalogue of Theta Chapter of the Society of the Sigma Xi of Union College. Schenectady, N. Y., 1907. 32 pp.

OFFICERS FOR 1911–12

President.....EDWARD ELLERY
Vice-President.....OLIN JEROME FERGUSON
Recording Secretary.....MORLAND KING
Corresponding Secretary.....JAMES HANNA CUNNINGHAM
Treasurer.....HOWARD OPDYKE
Councilor.....OLIN HENRY LANDRETH

MEMBERSHIP ROLL

Frank William Allen G 1893 White Plains, N. Y.
Engineer with McMullen and McDermott, Contractors

William Allen A 1910 New York City
Lawyer

Andrew Ordell Avery G 1907 Chicago, Ill.
Engineer, Western Electric Company

Miles Ayrault G 1895 Tonawanda, N. Y.
Vice-President and Treasurer, National Roofing Company

E Brown Baker A 1892 Herkimer, N. Y.
Manager, Acme Engineering and Contracting Company

Harold Wallace Baker U 1911 Oneida, N. Y.
Civil Engineer, Coleman DuPont Road

Thomas Webster Barrally CG 1887 Tonawanda, N. Y.
Resident Engineer, New York State Barge Canal

Roland Miller Bartlett G 1910 Oak Hill, Ill.
Teacher, School of Jubilee

Walter J Becker G 1910 Schenectady, N. Y.
Engineer, General Electric Company

Nathan Beckwith G 1894 New York City
Assistant Auditor, State Insurance Department

Raymond S Bennet G 1910 Schenevus, N. Y.
Engineer

Louis Ray Bennett U 1911 Hinckley, N. Y.
Engineer, New York State Barge Canal

Everett J Best G 1902 Enosburg Falls, Vt.
Principal, City Schools

Howard Elmer Bishop G 1907 Sayre, Pa.
Coal Dealer

Edward Emanuel Bocian G 1908 Chicago, Ill.
Electrical Engineer

Lewis Boss F 1903*† Albany, N. Y.
Director, Dudley Observatory

John Hammond Bovier G 1910 Elmira, N. Y.
Civil Engineer, State Barge Canal

Byron Briggs Brackett F 1898* Brookings, S. D.
Professor of Electrical Engineering, South Dakota State College

Henry Ward Briggs G 1890 Wilmington, Del.
Physician

Charles Carroll Brown CF 1887*† Indianapolis, Ind.
Consulting Engineer, Editor of Municipal Engineering

Edgar Brown G 1895 Washington, D. C.
Botanist, U. S. Department of Agriculture

Robert Leonard Brunnett G 1909 Schenectady, N. Y.
Engineer, General Electric Company

George D Buel CG 1887
(Deceased 1892)

John Albert Charlton Callan F 1910 Schenectady, N. Y.
Instructor in Engineering Drawing, Union College

Edward Madison Cameron CG 1887 Albany, N. Y.
Lumber Dealer

Melvin David Casler G 1906 New York City
Assistant Engineer, Board of Water Supply

William Spencer Cassedy G 1891 Gloversville, N. Y.
Lawyer

Arnold Goodwin Chapman G 1906 Albany, N. Y.
Secretary to New York State Engineer

Rodolphus Philip Clark G 1909 Schenectady, N. Y.
Engineer, General Electric Company

Charles Cleaver G 1896 Brooklyn, N. Y.
Engineer, Brooklyn Rapid Transit Company

H Burdett Cleveland G 1902 Albany, N. Y.
Assistant Engineer, New York State Health Department

Edward Bernard Coburn G 1888 New York City
Physician, New Amsterdam Eye and Ear Hospital

Clarence Tallman Coley F 1903 New York City
Electrical Engineer

Archie Randall Conover G 1888 Amsterdam, N. Y.
Lawyer

Frank Cooper G 1893 Schenectady, N. Y.
Corporation Counsel of Schenectady

Elmer Elsworth Farmer Creighton F 1905 Schenectady, N. Y.
Electrical Engineer, General Electric Company

Edgar Roscoe Cumings G 1897*† (Indiana CF 1904) Bloomington, Ind.
Professor and Head of Department of Geology, Indiana University

Homer P Cumings F 1892 Painesville, Ohio
City Engineer

James Hannah Cunningham G 1905 Schenectady, N. Y.
Instructor in Electrical Engineering, Union College

Richard Sydney Curtiss F 1903* Urbana, Ill.
Assistant Professor of Chemistry, University of Illinois

Clarence Raymond Darby G 1906 Toronto, Canada
Electrical Engineer

Arthur Edgar Davies G 1908 Schenectady, N. Y.
Lawyer

Cassius Miles Davis G 1909 Schenectady, N. Y.
Consulting Engineer, General Electric Company

Hugh Garnett Davis G 1907 New York City
Engineer, J. G. White and Company

Thomas G Delbridge G 1903 (Cornell F 1904) Ithaca, N. Y.
Instructor in Chemistry, Cornell University

Archibald Stewart Derby G 1896 Hudson Falls, N. Y.
Lawyer

Edward Wilkins Dewey CG 1887 Bradys Bend, Pa.
President, Allegheny River Improvement Association

William Jay Dickinson G 1903 Pittsfield, Mass.
With General Electric Company

Lindsay Duncan F 1901 Boulder, Col.
Professor of Civil Engineering, University of Colorado

Frederick Marshall Eames G 1895 Albany, N. Y.
Assistant Civil Engineer, New York State Barge Canal

Horace Taylor Eddy F 1900 Cincinnati, Ohio
Treasurer, Machinery Sales Company

Frederick Edwards F 1902 Troy, N. Y.
Civil Engineer

Edward Ellery F 1905 Schenectady, N. Y.
Professor of Chemistry, Union College

Tringad Knight Evans G 1905 Wales, England
Instructor in Electrical Engineering

Olin Jerome Ferguson F 1905 (Nebraska G 1903) Schenectady, N. Y.
Associate Professor of Electrical Engineering, Union College

Raymond J Finch G 1909 Schenectady, N. Y.
Engineer, American Locomotive Company

William Lewis Fisher G 1898 Philadelphia, Pa.
Assistant Curator, Philadelphia Museum

George H Furbeck G 1892 Cohoes, N. Y.
Physician

Charles Frederick Flemming Garis F 1908 Schenectady, N. Y.
Professor of Mathematics, Union College

Wilbert A Garrison F 1910 Schenectady, N. Y.
Assistant Professor of Mathematics, Union College

Franklin Henry Giddings A 1902*† New York City
Professor of Sociology, Columbia University

Fred Girvin G 1907 Schenectady, N. Y.
Chemist, General Electric Company

Harland Haviland Grover G 1910 Schenectady, N. Y.
Engineer, General Electric Company

Loren C Guernsey G 1895
(Deceased 1901)

Thomas Edward Hannigan G 1908 Schenectady, N. Y.
Journalist

James Herring G 1896 Philadelphia, Pa.
With The Schofield Company

Leland Silas Hoffman G 1908 Worcester, Mass.
Instructor in Mathematics, Bancroft School

Francis Edward Holleran G 1895 Washington, D. C.
Chief Draftsman, Engineering Department, Panama Canal

Adam John Horn G 1910 St. Johnsville, N. Y.
Cost Clerk, Union Mills

John Wilbur Hughes F 1907 Erie, Pa.
Civil Engineer, General Electric Company, Erie Works

Daniel Ferguson Imrie G 1906 Lake George, N. Y.
Lawyer

Leland Wesley Irish U 1904 Evanston, Ill.
Civil Engineer

Edgar Boyd Kay F 1897 Tuscaloosa, Ala.
Dean, College of Engineering, University of Alabama

Eric Ture King G 1905 Cornwall-on-Hudson, N. Y.
Assistant Engineer, New York City Board of Water Supply

Morland King G 1905 Schenectady, N. Y.
Instructor in Electrical Engineering, Union College

Warner King G 1906 Brooklyn, N. Y.
Assistant Engineer, New York City Board of Water Supply

Walter Gill Kirkpatrick F 1894 Jackson, Miss.
Kirkpatrick and Johnson, Civil and Mechanical Engineers

Frederick Klein G 1895 New York City
Lawyer

August H Kruesi G 1906 Schenectady, N. Y.
Designing Engineer, General Electric Company

Olin Henry Landreth F 1894*† Schenectady, N. Y.
Professor of Engineering, Union College

William Baker Landreth A 1911 Schenectady, N. Y.
Consulting Engineer

Arthur Hamilton Lawton G 1900 New York City
With New York Edison Company

Walter Lewman Lawton G 1894 Oswego, N. Y.
Civil Engineer

Andrew Wright Lent G 1904 Highland, N. Y.
A. D. and A. W. Lent, Attorneys

Arthur Maurice Lewald G 1893 Chicago, Ill.
Lawyer

Leon Roy Lewis G 1906 Hudson Falls, N. Y.
Lawyer

Beekman Cox Little G 1891 Rochester, N. Y.
Superintendent, Rochester Water Works

Livingston J Little F 1890
(Deceased 1909)

Sidney J Lockner A 1891 Copenhagen, N. Y.
Principal, High School

Frank Ira Losee G 1905 Newark, N. J.
Instructor in History, Barringer High School

Edward Patrick McKeefe G 1898 Albany, N. Y.
Chemist, New York State Department of Agriculture

Augustine Marx G 1908 Schenectady, N. Y.
Electrical Engineer, General Electric Company

Arthur Lyman Maxon U 1911 Corning, N. Y.
Teacher, Corning Free Academy

John Crap Merchant G 1898 Pine Plains, N. Y.
Physician

Edward Waite Miller CG 1887 Albany, N. Y.
Clergyman

Howard Townsend Mosher F 1895 Rochester, N. Y.
Lawyer

Monte Josiah Multer G 1897 Cooperstown, N. Y.
Principal of Union and High School

Alexander Joseph Nicht, Jr G 1907 Milwaukee, Wis.
Electrical Engineer, Allis-Chalmers Company

Howard Opdyke F 1895 Schenectady, N. Y.
Professor of Physics, Union College

David Henry Osborne G 1907 Victor, N. Y.

Glowacki Redfield Parker G 1903 Schenectady, N. Y.
Commercial Engineer, General Electric Company

Arthur Adams Patterson U 1911 Glens Falls, N. Y.
Engineer, New York State Barge Canal

James Lawson Patterson F 1895*† Philadelphia, Pa.
Headmaster, Chestnut Hill Academy

William Edward Paul G 1910 Schenectady, N. Y.
Engineer, General Electric Company

Leighton H Peebles G 1906 New York City
Engineer for J. G. White and Company, Inc.

Edward Penrose, Jr G 1908 Cohoes, N. Y.
Employed on New York State Barge Canal

Albert Hartwell Pepper CG 1887 Schenectady, N. Y.
W. T. Hanson Company

Maurice Perkins CF 1887†
(Deceased 1901)

Alfred Edward Phillips CG 1887 Chicago, Ill.
Head of Department of Civil Engineering, Armour Institute of Technology

Edward Ferguson Pickford G 1889 Washington, D. C.
Lecturer on Hygiene, National University

George Edward Pollock G 1896
(Deceased 1904)

Horatio Milo Pollock G 1895 Albany, N. Y.
Statistician and Editor, State Lunacy Commission

Henry Wray Preston G 1891 Elmira Heights, N. Y.
Engineer, Elmira Plant, Empire Bridge Company

Charles Smith Prosser F 1895*† (Ohio F 1900) Columbus, Ohio
Professor of Geology, Ohio State University

Thomas Henry Reddish G 1892 Owego, N. Y.
Cashier, Owego National Bank

Lloyd Nash Robinson U 1911 Schenectady, N. Y.
Engineer, General Electric Company

Richard Burton Rowe G 1896
(Deceased 1902)

Arthur Jay Roy G 1893* Albany, N. Y.
First Assistant, Dudley Observatory

Elbert Theodore Rulison G 1904 New York City
Student, Roosevelt Hospital

Howard Emmet Sands G 1902 East Walpole, Mass.
With F. W. Bird and Son

Herbert Davis Schutt G 1909 Calgary, Alberta
Civil Engineer

Edson Mason Scofield CG 1888 Philadelphia, Pa.
President, The Scofield Engineering Company

Glenn Mason Scofield G 1897 Philadelphia, Pa.
Vice-President, The Scofield Engineering Company

Lynn M Scofield G 1897 San Francisco, Cal.
President, L. M. Scofield Company

David Joseph Shaw G 1902
(Deceased 1910)

Philip Foster Shutler G 1910 Fulton, N. Y.
Assistant City Engineer

Stephen Elmer Slocum G 1897† Cincinnati, Ohio
Professor of Applied Mathematics, University of Cincinnati

Cady Staley F 1888† (Case F 1907) Cleveland, Ohio
Professor of Political Economy, Case School of Applied Science

Charles Proteus Steinmetz F 1903† Schenectady, N. Y.
Professor of Electrical Engineering, Union College

Franklin Rand Stevens G 1908 Rutland, Vt.
Civil Engineer, Rutland Railway

George C Stewart G 1889 Amsterdam, N. Y.
Lawyer

James Hough Stoller F 1889* Schenectady, N. Y.
Professor of Biology and Geology, Union College

S Vernon Travis U 1911 Schenectady, N. Y.
Engineer, General Electric Company

James Reagles Truax CF 1887 Schenectady, N. Y.
Journalist

Charles W Trumbull G 1892 Schenectady, N. Y.
City Engineer

Willis Gaylord Tucker CF 1887*† Albany, N. Y.
Professor of Chemistry and Toxicology, Albany Medical College

Ansel Augustus Tyler F 1898*† Bellevue, Neb.
Professor of Biology, Bellevue College

H A Van Alstyne A 1909 Schenectady, N. Y.
Lawyer

Richard Van Busekum G 1894
(Deceased)

Wayne Avril Vandergrift G 1908 Schenectady, N. Y.
Electrical Engineer, General Electric Company

Gardner Lewis Van Dusen G 1896 New York City
Assistant Engineer in Topographic Bureau, Borough of Queens

Wellington Eugene Van Wormer G 1901 Middleburgh, N. Y.
District Superintendent of Schools

Carl Otto von Dannenberg G 1906 New York City
Electrical Engineer, J. G. White and Company

Dow Vroman CG 1887 North Tonawanda, N. Y.
President, Board of Education

Clarence Abiathar Waldo F 1890*† (Purdue CF 1909) St. Louis, Mo.
Professor of Mathematics, Washington University

Elton David Walker F 1895 State College, Pa.
Professor of Engineering, Pennsylvania State College

Otto Jean Walrath G 1909 Ossining, N. Y.
Teacher, Mount Pleasant Academy

Robert Hoosick Washburne G 1889 Benson, Vt.
Methodist Minister

Harrison E Webster F 1888
(Deceased 1906)

William Earl Weller G 1907 Schenectady, N. Y.
Deputy City Engineer

William Wells CF 1887
(Deceased 1908)

Karl Frederick West G 1905 Cornwall-on-Hudson, N. Y.
Engineer, New York City Board of Water Supply

Edwin Bennett Wheeler F 1902 New York City
Assistant in Physics, Columbia University

Edward Jonathan Wheeler G 1894 Albany, N. Y.
Chief Chemist, State Department of Agriculture

Peter J Whitmore G 1910 Schenectady, N. Y.
Engineer, General Electric Company

Frank Blair Williams F 1901 Worcester, Mass
Professor of Mathematics, Clark University

Robert Neil Williams F 1903 Berlin, Germany
Manager, Deutsche Hollerith Machine Company, Ltd.

Harry P Willis G 1903 Waterford, N. Y.
Engineer

Edwin Henry Winans F 1898 Rochester, N. Y.
Lawyer

Dann Leonard Wood G 1897 Schenectady, N. Y.
Patent Attorney, General Electric Company

Thomas Wallace Wright CF 1887
(Deceased 1908)

William Howard Wright A 1898 Schenectady, N. Y.
Manufacturer

Daniel Albert Young F 1908 Schenectady, N. Y.
Assistant Engineer, State Highway Department

IOTA CHAPTER

University of Kansas, Lawrence, Kansas

Charter Granted December 4, 1889 — No Formal Installation

HISTORICAL SKETCH

As far as can be learned the Kansas Chapter of Sigma Xi has never had a charter, nor was it installed. This is due to the fact that it was one of the early chapters formed.

In the records of the first meeting, held April 21, 1890, the following statements occur: "The chairman reported that permission had been received from the President of the parent chapter of Sigma Xi at Cornell University to establish a chapter of Sigma Xi at the University of Kansas upon the adoption of the constitution of the society. It was voted that a Chapter be organized at the University of Kansas with Professors Bailey, Blake, Marvin, Miller and Snow, heads of the scientific departments, as charter members." In the minutes of the sixth meeting held June 1, 1892, in reporting the adoption of the revised constitution, the name Iota Chapter first occurs.

Sixteen meetings were held up to June, 1896, and in the autumn of that year "frequent meetings" of a combined scientific, business and social nature, began. Since 1899 such meetings are regularly held on the third Thursday of each month of the school year. At these meetings a semi-popular paper or lecture is given, showing recent advances in a special field of science, or results of investigations carried on by the writer or speaker. These frequent meetings, together with the great interest and enthusiasm shown by the early members, have given the Chapter the standing and influence it has today. All the charter members are still active members. The faithfulness of the early members is well exemplified by the first president, Professor F. O. Marvin, who served as president for ten years and who attended twenty-six out of the first twenty-eight meetings held during the first eight years of his incumbency.

Since 1900 the Chapter has alternated with Phi Beta Kappa in furnishing a prominent speaker for the Annual Convocation Week. Aside from this, the Chapter brings at its own expense one or two prominent speakers to the University for popular public lectures. For the last two years one of these has been the Missouri-Iowa-Nebraska-Kansas "circuit" speaker.

Locally, the Chapter was largely responsible for the co-ördination of the work in the high schools of the state, and the University; also, in raising the amount of the required science work. Since 1906 the April meeting is given over wholly to a social program. A banquet is followed by burlesques and "take-offs" on the doings of science and scientists

locally as well as nationally. This is a revival of a custom of the old Science Club, "The It," which was in a way the predecessor of the Iota Chapter in this University. A glance at the list following will show a considerable number of names of persons who have attained eminence in some line of work.

Members of T B Π who are members of the faculty are allowed to affiliate and enjoy all privileges except that of voting.

W. J. B.

PUBLICATIONS

Sigma Xi, the Honorary Scientific Society of American Colleges, 1890.

Membership of the Iota Chapter of the Society of Sigma Xi, 1899.

Catalog of the Members of the Iota Chapter of the Society of Sigma Xi. January 1, 1903.

Supplementary List of the Members of the Iota Chapter of the Society of Sigma Xi. June 1, 1905.

Higher Education in Kansas. (An address given before the Kansas University Chapter by Professor S. W. Williston, President of Sigma Xi). June 1902. pp. 16.

OFFICERS FOR 1911–12

President.....Lucius Elmer Sayre
Vice-President.....Perley F. Walker
Recording Secretary.....Clinton Mason Young
Corresponding Secretary.....William Jacob Baumgartner
Treasurer.....Herbert William Emerson
Councilor.....Edgar Henry Summerfield Bailey

MEMBERSHIP ROLL

Arthur Lincoln Adams — A 1896† — San Francisco, Cal.
Hydraulic Engineer

Charles Frederick Adams — G 1902* (Chicago G 1903) — Fayetteville, Ark.
Dean of College of Agriculture, University of Arkansas

George Irving Adams — A 1900*† — Manila, P. I.
Mining Geologist, U. S. Geological Survey

Ira James Adams — U 1906 — Cleveland, Ohio
Patent Attorney, National Carbon Company

Frank Ulysses Grant Agrelius — U 1907 — Emporia, Kan.
Assistant in Biology, State Normal School

George Rockwell Albers — U 1896 — Los Angeles, Cal.
Dealer in Poultry Supplies

John Martin Aldrich — A 1902*† — Moscow, Ida.
Professor of Biology, University of Idaho

Herman Camp Allen — G 1906 — Lawrence, Kan.
Assistant Professor of Chemistry, University of Kansas

Charles Hamilton Ashton — F 1904* — Lawrence, Kan.
Associate Professor of Mathematics, University of Kansas

Rupert Frederick Aspinall U 1910 Eureka, Nev.
Mining Engineer

Edgar Henry Summerfield Bailey CF 1890*† Lawrence, Kan.
Professor of Chemistry, University of Kansas

George Clyde Baldwin U 1905 Boise, Ida.
District Engineer, Water Resources Branch, U. S. Geological Survey

Carl Milton Ball U 1909 Kennett, Cal.
Chemist, Mammoth Copper Mining Company

Marshall Albert Barber U 1891* Lawrence, Kan.
Professor of Bacteriology and Pathology, University of Kansas

Ernest Henry Barkmann U 1903 Leavenworth, Kan.
Engineer, Missouri Valley Bridge and Iron Company

John Firmen Barnhill U 1910 Paola, Kan.
Superintendent of City Schools

Edmond Montgomery Bartholow U 1908 Blue Rapids, Kan.
Principal of High School

Edward Bartow F 1898*† (Illinois F 1908) Urbana, Ill.
Director of State Water Survey, University of Illinois

Edwin Abraham Baumgartner U 1910 Madison, Wis.
Instructor in Anatomy, University of Wisconsin

William Jacob Baumgartner G 1900* (Chicago G 1903) Lawrence, Kan.
Assistant Professor of Zoology, University of Kansas

Joshua William Beede G 1897*† (Indiana CF 1904) Bloomington, Ind.
Associate Professor of Geology, University of Indiana

John Dinsmore Bigger G 1909 Kangkai, Korea
Director, Presbyterian Hospital

Frederick Horatio Billings F 1907* Lawrence, Kan.
Associate Professor of Botany, University of Kansas

Maulsby Willett Blackman G 1902* Syracuse, N. Y.
Associate Professor of Zoology, Syracuse University

Lucien Ira Blake CF 1890* Boston, Mass.
Chief Engineer, Submarine Signal Company

Harold Veatch Bozell U 1908 Norman, Okla.
Professor of Electrical Engineering, University of Oklahoma

Edwin Bayer Branson U 1903* (Missouri F 1910; Chicago G 1904)
Professor of Geology, University of Missouri [Columbus, Mo.

Helen Barten Brewster G 1902 Ithaca, N. Y.
(Mrs Fred William Owens)

Frank Peterson Brock U 1906 Lawrence, Kan.
Fellow in Industrial Research

Harry Peter Broderson U 1908 Schenectady, N. Y.
Assistant Foreman, General Electric Company

Orville Harry Brown G 1901* (Chicago G 1903) St. Louis, Mo.
Assistant Professor of Medicine, St. Louis University

William Harvey Brown A 1890 Salisbury, Rhodesia
Author and Ranchman

Ivan Roy Burket U 1910 Boston, Mass.
Fellow in Physiology, Harvard Medical School

Montrose Thomas Burrows U 1905 New York City
Associate Professor of Anatomy, Cornell University

Francis William Bushong F 1906* Lawrence, Kan.
Associate Professor of Chemistry, University of Kansas

Mable Rowena (Davis) Byerley U 1906 Humboldt, Kan.
(Mrs W A Byerley)

Hamilton Perkins Cady U 1897* Lawrence, Kan.
Professor of Chemistry, University of Kansas

Eugene Wilson Caldwell U 1901*† New York City
Visiting Physician, Presbyterian Hospital

Albert Luther Candy A 1894*† (Nebraska CF 1897) Lincoln, Neb.
Professor of Pure Mathematics, University of Nebraska

Estella Eleanor Carothers U 1911 Lawrence, Kan.
Fellow in Zoology, University of Kansas

Richard William Carter U 1894 Marathon, Fla.
Bridge Engineer, Florida East Coast Railway

Ermine Cowles Case U 1893* (Michigan F 1903) Ann Arbor, Mich.
Professor of Geology and Paleontology, University of Michigan

Charles Walter Chapin U 1907 Madeline, Cal.
Superintendent, Madeline Meadows Land and Irrigation Company

George Robert Chapin U 1902
(Deceased 1909)

Charles Herbert Chapman U 1911 Schenectady, N. Y.
Engineer Testing Department, General Electric Company

Earl Finley Clark U 1907 Piqua, Kan.
Physician

Herbert Anthony Clark U 1897 (Syracuse CF 1906) Syracuse, N. Y.
Associate Professor of Physics, Syracuse University

Helen Clarke A 1910 Lawrence, Kan.
Instructor in Correspondence Department, University of Kansas

Clarence LeRoy Cole A 1908 Ft. Logan, Col.
Captain, Medical Corps, United States Army

Harry Shipp Coleman U 1909 New York City
Engineer, Jacobs-Shupert, U. S. Firebox Company

Ward Hance Cook U 1909 Boston, Mass.
Student, Harvard Medical School

Everett Copley U 1908
(Deceased 1911)

Charles Ives Corp F 1909 Lawrence, Kan.
Associate Professor of Mechanical Engineering, University of Kansas

Frank Morgan Cortelyou U 1907 Van Buren, Ark.
Resident Engineer for Waddell and Harrington Construction Company

Alberta Cory U 1900 New York City
(Mrs F E Matthews)

Walter Richard Crane U 1895* State College, Pa.
Dean, School of Mines, Pennsylvania State College

Charles Corwin Crew U 1896 Alexandria, La.
Manager, A. Wyckoff and Son

Roy Cross U 1905 Kansas City, Mo.
Secretary and Engineer, Kansas City Testing Laboratory

Gertrude Anna Crotty U 1892* Cold Spring Harbor, L. I., N. Y.
(Mrs C B Davenport)

Samuel Ebb Crumb U 1908 Washington, D. C.
Investigator, U. S. Bureau of Entomology

John Edward Curry U 1893 Winchester, Kan.
Farmer

Robert William Curtis G 1904* (Yale F 1904) New York City
Instructor in Chemistry, University of City of New York

Frank Burnett Dains F 1894*† Lawrence, Kan.
Associate Professor of Chemistry, University of Kansas

B J Dalton F 1909 Lawrence, Kan.
Associate Professor of Railway Engineering, University of Kansas

Gertrude Anna (Crotty) Davenport G 1892* Cold Spring Harbor, L. I., N. Y.
(Mrs C B) Instructor in Microscopical Methods, Biological Labortory

Mable Rowena Davis U 1906 Humboldt, Kan.
(Mrs W A Byerley)

Roger Dean U 1904 Fresno, Cal.
With Santa Fe Railway

Hugo Diemer F 1903* State College, Pa.
Professor of Industrial Engineering, Pennsylvania State College

Robert Kennedy Duncan F 1907*† Lawrence, Kan.
Director of Industrial Research, University of Kansas

Elijah Herbert Dunmire U 1905 Lawrence, Kan.
City Engineer

Arthur St. Clair Dunstan F 1896* Auburn, Ala.
Professor of Electrical Engineering, Alabama Polytechnic Institute

Lewis Lindsay Dyche F 1890*† Lawrence, Kan.
State Fish and Game Warden, University of Kansas

Arnold Emch F 1895* (Colorado CF 1905; Illinois F 1911)
Assistant Professor of Mathematics, University of Illinois [Urbana, Ill.

Herbert William Emerson F 1904* Lawrence, Kan.
Assistant Professor of Pharmacy, University of Kansas

Samuel Charles Emley F 1905* Kansas City, Mo.
Associate Professor of Rhmolaryngology, University of Kansas

Daniel Edward Esterly U 1890 Topeka, Kan.
Ophthalmologist

Warren Fred Faragher U 1904 Boston, Mass.
Chemist, Alden Speare's Sons Company

Paul Vance Faragher U 1908 Boston, Mass.
Graduate Student, Massachusetts Institute of Technology

Hattie Fenner U 1910 Kansas City, Mo.
(Mrs Robert L Rinker)

Guy Finney U 1910 Rosedale, Kan.
Student, University of Kansas Medical School

Effie (Pyle) Fisher U 1900 Haviland, Kan.
(Mrs Jesse Fisher) Wife of Methodist Missionary

Anna Louise (McKinnon) Fitch A 1894 Clinton, N. Y.
(Mrs Edward Fitch)

Thomas Bartlett Ford U 1904 Washington, D. C.
Chemist, Bureau of Standards, U. S. Department of Agriculture

Richard Foster A 1884 Bremerton, Wash.
Physician

Vernon S Foster U 1909 Boston, Mass.
Assistant in Engineering, Massachusetts Institute of Technology

Edward Curtis Franklin F 1890*† (Stanford F 1903) Washington, D. C.
Chemist in Hygienic Laboratory

William Suddards Franklin F 1890*† South Bethlehem, Pa.
Professor of Physics and Electrical Engineering, Lehigh University

John M Freeman G 1899
(Deceased 1911)

Bert Charles Frichot U 1909 Independence, Kan.
Chemist, Petroleum Products Company

Arthur Bowes Frizell F 1910* McPherson, Kan.
Professor of Mathematics, McPherson College

George F Gaumer A 1890 Izanah, Yucatan, Mex.
Physician

Daniel Edwin Gelwix U 1907 Washington, D. C.
United States Reclamation Service

Edward Thomas Gibson G 1908 Rosedale, Kan.
Student, University of Kansas Medical School

Ray Edwin Gilman U 1911 Manhattan, Kan.
Instructor in Mathematics, State Agricultural College

Pressley Adams Glenn F 1908* (Illinois F 1911) Urbana, Ill.
Chief Horticultural Inspector for State Entomologist

Ralph Curtis Gowell U 1896
(Deceased 1897)

Wyman Reed Green U 1911 Wichita, Kan.
Science Teacher, High School

Marie Anna Greene U 1904 Kansas City, Kan.
Physician

Bessie Eleanor Growe U 1897 (Washington CG 1907) Seattle, Wash.
(Mrs Frank Marion Morrison)

Charles Merl Gruber U 1911 Lawrence, Kan.
Fellow in Physiology, University of Kansas

Carl Frederic Gustafson G 1902 Kansas City, Mo.
Teacher in Chemistry, Manual Training High School

Thomas Hambleton U 1908 Schenectady, N. Y.
With General Electric Company

John Lyle Harrington U 1895† Kansas City, Mo.
Consulting Engineer, Waddell and Harrington

James Arthur Harris U 1900* Cold Spring Harbor, L. I., N. Y.
Research Worker, Station for Experimental Evolution

George Wilbur Hartwell F 1909* St. Paul, Minn.
Professor of Mathematics, Hamline University

John King Harvey U 1908 Salina, Kan.
Physician

L D Havenhill F 1902* Lawrence, Kan.
Professor of Pharmaceutical Chemistry, University of Kansas

Erasmus Haworth A 1891*† Lawrence, Kan.
Professor of Geology and Mineralogy, University of Kansas

Henrietta Henderson U 1900 Pocatello, Ida.
(Mrs Harry Ashton Roberts)

Chester Henry Heuser U 1908 Boston, Mass.
Austin Teaching Fellow, Harvard Medical School

Burritt Howell Hill U 1894 Neodesha, Kan.
Assistant Cashier, First National Bank

Edmund John Hirschler U 1901 Bluffton, Ohio
Instructor in Mathematics and Physics, Central Mennonite College

Francis Marion Hoad U 1902
(Deceased 1909)

William Christian Hoad U 1898 Lawrence, Kan.
Professor of Civil Engineering, University of Kansas

Robert Lee Hoff U 1894 Lincoln, Neb.
Director of Science, Cotner University

Charles Hoffman U 1909 Pittsburgh, Pa.
Fellow in Industrial Research, University of Pittsburgh

George Jussen Hood U 1902 Lawrence, Kan.
Associate Professor of Mechanical Drawing, University of Kansas

Charles Warren Hooper U 1911 Balitmore, Md.
Medical Student, Johns Hopkins University

Ross Hopkins U 1899 St. Louis, Mo.
Physician

Roy Hoskins U 1905 Columbus, Ohio
Professor of Physiology, Starling Medical School

George Howard Hoxie F 1904* Kansas City, Mo.
Physician

Albert Kemp Hubbard F 1901 (Yale G 1901) Alva, Okla.
City Engineer

Samuel John Hunter F 1900*† Lawrence, Kan.
Professor of Entomology, University of Kansas

Ida Henrietta Hyde F 1899* Lawrence, Kan.
Professor of Physiology, University of Kansas

Henry Louis Jackson F 1910* Lawrence, Kan.
Assistant Professor of Chemistry, University of Kansas

Philip Charles Jeans U 1904 Hillsboro, Ohio
Physician

Clarence Anthony Johnson F 1909 (Nebraska U 1906) Lawrence, Kan.
Instructor in Electrical Engineering, University of Kansas

Wilbur Howden Judy U 1910 Ottawa, Kan.
Mechanical Engineer

Walter John Kackley U 1908 Kansas City, Mo.
Draftsman, Kansas City Terminal Railway Company

Paul Hugo Isador Kahl F 1896 Pittsburgh, Pa.
Curator of Entomology, Carnegie Museum

George Frederick Kay F 1904* (Iowa F 1908; Chicago G 1903)
Professor of Geology, University of Iowa [Iowa City, Ia.

Vernon Lyman Kellogg G 1890*† (Stanford CF 1902) Palo Alto, Cal.
Professor of Entomology, Leland Stanford Junior University

Leslie Alva Kenoyer G 1908 Toledo, Ia.
Professor of Biology, Leander Clark College

Frederick Edward Kester F 1909* (Cornell G 1899; Ohio F 1899)
Professor of Physics, University of Kansas [Lawrence, Kan.

Theron James Kinnear U 1902 Springfield, Ill.
Physician

Henry Adolph Kohman U 1908 Pittsburgh, Pa.
Fellow in Industrial Research, University of Pittsburgh

Charles August Kraus U 1896* Boston, Mass.
Research Associate in Chemistry, Massachusetts Institute of Technology

Oscar M Kuchs U 1905 Tooele, Utah
Metallurgist, Anaconda Copper Company

William John Lank U 1908 Clovis, N. M.
Engineer, Atchison Topeka and Santa Fe Railway Company

Albert Preisach Learned U 1910 Lawrence, Kan.
Transit-man for Cherryvale, Oklahoma and Texas Railway

Victor Elmer Lednicky U 1911 La Paz, Honduras
Mining Engineer, Clanton Mines Company

Otto L Lewis U 1904 Indianapolis, Ind.
Foreman, Nordyke and Marmon Company

Henry Richardson Linville U 1893* Jamaica, L. I., N. Y.
Teacher of Biology, High School

William Newton Logan A 1902* Agricultural College, Miss.
Professor of Geology, Agricultural and Mechanical College

John Harper Long A 1890*† (Northwestern CF 1906) Chicago,
Professor of Chemistry, Northwestern University Medical School [Ill.

Verne Vere Long U 1910 Kansas City, Mo.
Draftsman, Worley and Black, Engineers

Cleveland Scott Loper U 1910 Topeka, Kan.
Instructor of Engineering, Washburn College

Charles Winslow Lusk U 1908 Kansas City, Mo.
Sanitary Engineer, Burns and McDonnell, Engineers

Lloyd Alonzo Lowther U 1894 Emporia, Kan.
Superintendent of City Schools

George Pierce Mackenzie U 1907 Philadelphia, Pa.
Engineer Testing Department, General Electric Company

John Francis Mackey F 1910 Pittsburgh, Pa.
Fellow in Industrial Research, Univertisy of Pittsburgh

John Dice MacLaren A 1890* Portland, Ore.
Professor of Physiology, Medical School, University of Oregon

Frank Olin Marvin GF 1890*† Lawrence, Kan.
Dean, School of Engineering, University of Kansas

Alberta Cory Matthews U 1900 New York City
(Mrs Fred E Matthews)

Virgil McCarty U 1910 Rosedale, Kan.
Interne, Eleanor Taylor Bell Memorial Hospital

Clarence Erwin McClung U 1896* Lawrence, Kan.
Professor of Zoology, University of Kansas

Harry Clifford McClure U 1908 Toledo, Ohio
Engineer, Board of Education, Department of Architecture

Burton McCollum U 1902 Washington, D. C.
Physicist, United States Bureau of Standards

Elmer Verner McCollum U 1902* (Wisconsin F 1907) Madison, Wis.
Associate Professor of Agricultural Chemistry, University of Wisconsin

David Charles McConoughuy U 1906 Manila, P. I.
Civil Engineer, United States Government

Charles Stone McFarland U 1890* Burnside, La.
General Manager, Miles Planting and Manufacturing Company

David Ford McFarland U 1899* (Yale F 1909) Urbana, Ill.
Assistant Professor of Chemistry, University of Illinois

Hazel Hope McGregor F 1910 (Illinois G 1909) Lawrence, Kan.
Instructor in Mathematics, University of Kansas

Anna Louise McKinnon A 1894 Clinton, N. Y.
(Mrs Edward Fitch)

Orange Edward McMeans F 1900 Indianapolis, Ind.
Engineer and Architect, McMeans and Tripp

Charles Leonard McWhorter U 1911 Washington, D. C.
Junior Topographer, United States Geological Survey.

Grace Medes U 1904 Kansas City, Mo.

Walter Joseph Meek U 1902* Madison, Wis.
Assistant Professor of Physiology, University of Wisconsin

Alfred Moyer Meyers U 1898 Kansas City, Mo.
Architectural Engineer, Kansas City Structural Steel Company

Benjamin Leroy Miller U 1896*† South Bethlehem, Pa.
Professor of Geology, Lehigh University

Ephraim Miller CF 1890*† Pasadena, Cal.
Emeritus Professor of Mathematics, University of Kansas

Roy Lee Moodie U 1905* Lawrence, Kan.
Assistant Professor of Zoology, University of Kansas

Virgil Holland Moon U 1911 Chicago, Ill.
Medical Student, Rush Medical College

Bessie Eleanor (Growe) Morrison U 1897 (Washington CG 1907) Seattle,
(Mrs Frank Marion Morrison) [Wash.

Lawrence Norton Morscher G 1901 Lawrence, Kan.
Inventor

Eleanor Morse U 1905
(Deceased 1910)

Edward Charles Murphy F 1890* Berkeley, Cal
Hydraulic Engineer, United States Geological Survey

George Alfred Neal, Jr U 1910 Savannah, Ga.
Engineer, Savannah Gas Company

Ben Harry Nicolet U 1909 New Haven, Conn.
Graduate Student, Yale University

Nadine Nowlin U 1903 Lawrence, Kan.
Instructor in Zoology, University of Kansas

Edward Newton Noyes U 1906 Dallas, Tex.
Bridge Engineer, Dallas-Oak Cliff Viaduct

Ellis Bradford Noyes A 1894 Portsmouth, Va.
Chief Draftsman, Department of Public Works, United States Navy Yard

Floyd Price Ogden U 1911 Kansas City, Mo.
In Engineering Department, Missouri and Kansas Telephone Company

Fred Williams Owens U 1901 (Cornell F 1908) Ithaca, N. Y.
Instructor in Mathematics, Cornell University

Helen Barten (Brewster) Owens G 1902 Ithaca, N. Y.
(Mrs Fred William Owens)

Walter Kiefer Palmer F 1897 Kansas City, Mo.
Consulting Engineer

Paul Ross Parmelee U 1909 Pittsburgh, Pa.
Fellow, University of Pittsburgh

Percival John Parrott U 1897* Geneva, N. Y.
Entomologist, New York Experiment Station

Frank Dewey Phillips U 1907 Schenectady, N. Y.
Designing Engineer, Testing Department, General Electric Company

Edith Pinney G 1910 Bryn Mawr, Pa.
Travelling Fellow in Zoology, Bryn Mawr College

Arthur Dunn Pitcher U 1905 Hanover, N. H.
Assistant Professor of Mathematics, Dartmouth College

Robert Spencer Pond G 1910 Athens, Ga.
Instructor in Mathematics, University of Georgia

Fred Baker Porter U 1902* Atlanta, Ga.
Chemist, Swift Fertilizer Works

Roland E Porter U 1904
(Deceased 1907)

Roy Albert Porterfield U 1910 Baldwin, Kan.
Instructor in Engineering, Baker University

Fred Cecil Powell U 1909 Macksville, Kan.
Physician.

Leonard Pulliam U 1909 Lyons, Kan.
In Business

Effie Pyle U 1900 Haviland, Kan.
(Mrs Jesse Fisher) Wife of Methodist Missionary

Lawrence Vincent Redman G 1910 Lawrence, Kan.
Fellow in Industrial Research, University of Kansas

Martin Everett Rice G 1892* Lawrence, Kan.
Associate Professor of Physics and Engineering, University of Kansas

Hugh Tudor Richards A 1896 Los Angeles, Cal.
Civil Engineer, Rio Colorado Railway and Navigation Company

Arthur Osborne Ridgway U 1892 Denver, Col.
Assistant Chief Engineer, Denver and Rio Grande Railway

Albert Stanley Riffle A 1890
(Deceased 1908)

Frank Riffle A 1890 San Francisco, Cal.
Manager Iron and Pipe Department, Dunham, Corrigan and Hayden

Elmer Samuel Riggs G 1896 (Chicago G 1903) Chicago, Ill.
Assistant Curator, Field Museum of Natural History

Henry Earle Riggs A 1899* Ann Arbor, Mich.
Consulting Engineer, Riggs and Sherman

Frank Ringer U 1893 St. Louis, Mo.
Assistant Chief Engineer, Missouri, Kansas and Texas Railway

Hattie (Fenner) Rinker U 1910 Kansas City, Mo.
(Mrs Robert L Rinker)

Herbert Fuller Roberts A 1901* Manhattan, Kan.
Professor of Botany, Kansas State Agricultural College

Henrietta (Henderson) Roberts U 1900 Pocatello, Ida.
(Mrs Harry Ashton Roberts)

William Rees Robertson G 1907 Cambridge, Mass.
Austin Fellow, Harvard University

Austin Flint Rogers U 1898* Palo Alto, Cal.
Associate Professor of Mineralogy, Leland Stanford Junior University

John Henry Ronnebaum U 1900
(Deceased 1907)

Rial Catlin Rose U 1906 Torreon, Mex.
Biologist, Continental Rubber Company

Irvin R Rothrock U 1894 Baltimore, Md.
Chemist, Armour Packing Company

Frank Finch Rupert U 1906 Lawrence, Kan.
Instructor in Chemistry, University of Kansas

Abraham John Ruth U 1900 Cananea, Sonora, Mex.
Assistant Engineer, Cananea Consolidated Copper Company

Charles Emerson Sanborn G 1904 Stillwater, Okla.
State Entomologist, Agricultural and Mechanical College

Lucius Elmer Sayre F 1896† Lawrence, Kan.
Dean, School of Pharmacy, University of Kansas

Richard Everingham Scammon U 1906* Minneapolis, Minn.
Assistant Professor of Anatomy, University of Minnesota

Theopilus H Scheffer U 1895 Washington, D. C.
Scientific Expert, Biological Survey

Walter Red Schreiner U 1911 Washington, D. C.
Junior Topographer, United States Geological Survey

Elias Howard Sellards U 1890*† Tallahassee, Fla.
State Geologist

Andrew Watson Sellards U 1902 Baltimore, Md.
Assistant Resident Physician, Johns Hopkins Hospital

George Carl Shaad F 1910 Lawrence, Kan.
Professor of Electrical Engineering, University of Kansas

Millard King Shaler A 1910* Kinshasa, Congo Belge, Africa
Mining Engineer for Société Internationale Forestière et Minière du Congo

Alwin W Shepard F 1893 Buffalo, N. Y.
Teacher of Science, Buffalo Public Schools

James Abraham Garfield Shirk G 1905* Ottawa, Kan.
Professor of Physics, Ottawa University

Ralph Clement Shuey U 1907 Pittsburgh, Pa.
Fellow in Industrial Research, University of Pittsburgh

Edwin Emery Slosson U 1890*† New York City
Literary Editor, The Independent

Delbert O Smith U 1911 Rosedale, Kan.
Medical Student, University of Kansas

Frank Edwin Smith U 1910 St. Louis, Mo.
Designer, Buebel and Wells, Engineers

Roy Kenneth Smith G 1909 Sua Mot Kol Seoal, Korea
Physician to Hospital

Francis Huntington Snow CF 1890*†
(Deceased 1908)

William Appelton Snow U 1891
(Deceased 1899)

Orin Fletcher Stafford U 1899* Eugene, Ore.
Professor of Chemistry, University of Oregon

William Alfred Starin U 1906 Columbus, Ohio
Assistant Professor of Bacteriology, Ohio State University

Amel E Stegeman U 1910 Bakersfield, Cal.
Engineer, The Associated Oil Company

Charles Morgan Sterling F 1908 Lawrence, Kan.
Assistant Professor of Pharmacognacy, University of Kansas

William Chase Stevens F 1903*† Lawrence, Kan.
Professor of Botany, University of Kansas

Alban Stewart G 1898* Madison, Wis.
Instructor in Botany, University of Wisconsin

Bennett Merriman Stigall U 1901 Warrensburg, Mo.
Professor of Biology and Nature Study, State Normal School

Howard Stough G 1909 Clay Center, Kan.
Teacher of Science, High School

Mervin Tubman Sudler F 1904* (Cornell F 1903) Lawrence, Kan.
Associate Dean of Medical School, University of Kansas

Walter Stanborough Sutton U 1899 (Columbia CF 1902) Rosedale, Kan.
Associate Professor of Surgery, University of Kansas Medical School

Edgar Lemuel Tague G 1910 Topeka, Kan.
Professor of Chemistry, Washburn College, Topeka, Kan

Martha Alice Thompson U 1892 Kansas City, Kan.
Instructor in Latin, High School

Joel Rex Thorpe U 1907 Milwaukee, Wis.
Draftsman, Steam Turbine Design Department, Allis-Chalmers Company

Ernest Roy Tibbetts U 1910 Lawrence, Kan.
Senior Student, University of Kansas

Edwin Ward Tillotson F 1910* (Yale U 1906) Lawrence, Kan.
Fellow in Industrial Research, University of Kansas

James Edward Todd F 1907*† Lawrence, Kan.
Assistant Professor of Geology, University of Kansas

Alanson Niles Topping U 1894 Lafayette, Ind.
Associate Professor of Electrical Engineering, Purdue University

William Henry Twenhofel F 1910 (Yale U 1908) Lawrence, Kan.
Assistant Professor of Geology, University of Kansas

John Nicholas Van der Vries F 1902* Lawrence, Kan.
Associate Professor of Mathematics, University of Kansas

Will Elbert Vawter U 1911 Lawrence, Kan.
Fellow in Industrial Research, University of Kansas

George Wagner U 1899* (Wisconsin CF 1907) Madison, Wis.
Assistant Professor of Zoology, University of Wisconsin

Perley Walker F 1905 (Cornell G 1901) Lawrence, Kan.
Professor of Mechanical Engineering, University of Kansas

Lalia Viola Walling G 1907 Lawrence, Kan.
Instructor in Physiology, University of Kansas

Peter John Wedel U 1895 Newton, Kan.
Professor of Science, Bethel College

Ernest Edward Weibel U 1911 Washington, D. C.
Laboratory Assistant, U. S. Bureau of Standards.

George Francis Weida A 1891* Gambier, Ohio
Professor of Chemistry, Kenyon College

Edward Roy Weidlein U 1909 Lawrence, Kan.
Stubbs-Grenfell Fellow in Chemistry, University of Kansas

Archie James Weith U 1908 Lawrence, Kan.
Fellow in Industrial Research, University of Kansas

David Henry Wenrich U 1911 Lawrence, Kan
Fellow in Zoology, University of Kansas

August Ludwig Paul Wernicke F 1909* Cincinnati, O.
Investigator and Author

Wilfred Forest Wheeler U 1908
(Deceased 1909)

Edward Ambrose White A 1909 Kansas City, Kan.
City Chemist, Teacher in High School

Edward Albert White U 1908 Lawrence, Kan.
Instructor in Mechanical Engineering, University of Kansas

Marion Ballantyne White F 1910 (Chicago G 1909) Lawrence, Kan.
Assistant Professor of Mathematics, University of Kansas

Bruce Williams U 1906 Webb City, Mo.
Chemist, The Waring Laboratories

Francis Xavier Williams F 1909 (Stanford G 1908) Lawrence, Kan.
Assistant Curator in Entomology, University of Kansas

Kersey George Williams U 1907 Little Rock, Ark.
Resident Engineer, Rock Island Railway

Samuel Wendell Williston F 1893*† (Chicago CF 1903) Chicago, Ill.
Professor of Paleontology, University of Chicago

Josie Wilson U 1893 Sioux Falls, S. D.
Teacher, High School

John Stephen Worley U 1903 Kansas City, Mo.
Engineer, The J. S. Worley Company

Alexander Ririe Young U 1905 Topeka, Kan.
City Engineer

Clifford Caudy Young U 1910 Lawrence, Kan.
Chemist for State Water Survey, University of Kansas

Clinton Mason Young F 1907* Lawrence, Kan.
Associate Professor of Mining, University of Kansas

John Wesley Young F 1910* (Cornell G 1901) Hanover, N. H.
Head of Department of Mathematics, Dartmouth College

Adolph Ziefle F 1909 Fargo, N. D.
Professor of Pharmacy, State Agricultural College

YALE CHAPTER

Yale University, New Haven, Connecticut

Charter Dated March 8, 1895 Chapter Installed March 29, 1895

HISTORICAL SKETCH

The Yale Chapter, organized in 1895, was a direct result of a movement on the part of the senior class (1895) of the Sheffield Scientific School for a society which should stand for high scholarship in science. The matter had been discussed annually for several years during which many plans were considered, when finally the above class with the approval of the faculty, voted to establish a chapter of Sigma Xi. Professor Henry S. Williams of the Yale Chapter, formerly of Cornell, and one of the founders of the parent chapter, deserves special mention for his valuable advice and help to the organizers. The Academic Department, the Medical School, and the Forest School, share with the Sheffield Scientific School in the election of members and the management of the Chapter.

In its development at Yale, the society has not held meetings for the reading of strictly technical papers. These are left to the various research clubs, such as the Physical, Chemical, Biological, Mathematical, and Engineers' clubs. The field of Sigma Xi here is to encourage scientific work, not to do it. It accomplishes this by papers and lectures of general scientific interest, by discussion of matters common to all investigators, and by social intercourse of its members. As a fraternity of scientific workers and as an honorary scholarship society, a real want of the university life is supplied. The part played by the undergraduates is necessarily limited: elected near the end of their college course, attending a few meetings, becoming a little better acquainted with their instructors, wearing the society emblem, they enter upon their life work stimulated in some degree at least by the traditions and aims of Sigma Xi.

PUBLICATIONS

The Yale Chapter of the Society of the Sigma Xi. (From the address of the president, Professor John C. Tracy, at the initiation of new members, February 21, 1903.) Reprinted from the Yale Scientific Monthly of April, 1903. pp. 4.

Yale Chapter of the Society of the Sigma Xi. Founded 1895. By-Laws, List of Officers and Members, Titles of Papers read at Meetings; Published at Tenth Anniversary of the Founding of the Chapter. New Haven, 1905. pp. 46.

OFFICERS FOR 1911–12

President.....Joseph Barrell
Vice-President.....Yandell Henderson
Recording Secretary.....Frederick Shand Goucher
Corresponding Secretary.....Joseph Wickham Roe
Treasurer.....Herbert Lee Seward
Councilor.....John Clayton Tracy

MEMBERSHIP ROLL

Alva Blanchard Adams U 1896 Pueblo, Col.
Lawyer

Ernest Kempton Adams U 1896
(Deceased 1904)

Harry Louis Abramson U 1911 Providence, R. I.
Interne, Rhode Island Hospital

Harry Leslie Agard F 1911 Williamstown, Mass.
Instructor in Mathematics, Williams College

Hubert Hillary Sufferin Aimes G 1898 West Haven, Conn.
Financier

Grosvenor Noyes Allen U 1895 Kenwood, Oneida, N. Y.
First Vice-President, Oneida Community, Limited

Arthur Nathaniel Alling F 1908† New Haven, Conn.
Clinical Professor of Ophthalmology, Yale University

Joseph Alfred Ambler U 1910 New Haven, Conn.
Assistant in Chemistry, Sheffield Scientific School

Fred Elijah Ames G 1906 Portland, Ore.
U. S. Assistant District Forester

William Gilbert Anderson F 1902 New Haven, Conn.
Director Yale Gymnasium, Yale University

Irving Atwater Andrew U 1903 Orange, Conn.
In Business

Roswell Parker Angier F 1907 New Haven, Conn.
Assistant Professor of Psychology, Yale University

Harry Sears Arnold F 1911 New Haven, Conn.
Instructor in Pathology, Yale University

William Travis Ayer U 1903 Dover, N. J.
Superintendent, McKiernan-Terry Drill Company

Arthur Whittemore Bacon U 1903 New Britain, Conn.
Hall and Bacon, Civil and Consulting Engineers

Edward Monroe Bailey, Jr G 1910 New Haven, Conn.
Chemist, Connecticut Agricultural Experiment Station

George Alfred Baitsell G 1911 New Haven, Conn.
Graduate Assistant in Biology, Yale University

John Alexander Baker U 1907 Todmorden Hall, Wallingford, Pa.

John Mayhew Baldwin U 1909 Houston, Tex.
Tank Gauging Engineer, The Texas Company

Seth Weaver Baldwin U 1904 New Haven, Conn.
Claim Attorney, New York, New Haven and Hartford Railroad Company

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Assistant in Biology, Yale University

Joseph Austen Bancroft U 1904 Montreal, Canada
Assistant Professor of Geology, McGill University

Ida Barney G 1911 Winter Park, Fla.
Acting Professor of Mathematics, Rollins College

Samuel Eben Barney CF 1895 New Haven, Conn.
Assistant Professor of Civil Engineering, Yale University

Charles Gardiner Barnum G 1910 New York City
Interne, Roosevelt Hospital

Joseph Barrell F 1900* New Haven, Conn.
Professor of Structural Geology, Yale University

Walter Ransom Barrows G 1911 New Haven, Conn.
Department of Geology

William Raymond Barss U 1909 New Haven, Conn.
Graduate Student in Physics, Yale College

Charles Joseph Bartlett F 1897* New Haven, Conn.
Professor of Pathology, Yale Medical School

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Instructor in Electricity, Yale University

Frederick Elijah Beach CF 1895* New Haven, Conn.
Assistant Professor of Physics, Yale University

Charles Thomas Beach U 1905 Hartford, Conn.
Physician

Harold Kenney Beach U 1904 Hastings-on-Hudson, N. Y.
Engineer, National Conduit and Cable Company

George Elbert Beck G 1907 New York City
Educational Director, Young Men's Christian Association

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Government Forester

Silas Palmer Beebe G 1903* New York City
Professor of Therapeutics, Cornell University Medical College

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Civil Engineer

Paul Beck Belin U 1895 Scranton, Pa.
General Manager, Scranton Lace Curtain Company

Horace Doolittle Bellis G 1907 Trenton, N. J.
Physician

Stanley Rossiter Benedict G 1907 New York City
Assistant Professor of Chemical Pathology, Cornell University Medical School

John Bentley, Jr G 1906 Ithaca, N. Y.
Forester

Harry Van der Veer Bergen U 1895 Washington, D. C.
Research Associate, Carnegie Institution

Joseph Bernstein U 1904 Boston, Mass.
Special Track Work Engineer, Boston Electric Railway Company

Anson Gardner Betts U 1897 North Troy, N. Y.
Chemist and Metallurgist

Forrest B Beyer U 1908 Manila, P. I.
Chemist, Bureau of Science

Earl Gordon Bill F 1908 Lafayette, Ind.
Instructor in Mathematics, Purdue University

Harold Crusius Bird U 1908 Chester, Pa.
Assistant Professor of Engineering, Pennsylvania Military College

Avard Longley Bishop F 1906 New Haven, Conn.
Assistant Professor of Geography and Commerce, Yale University

Carlton Thomas Bishop U 1903 New Haven, Conn.
Instructor in Civil Engineering, Sheffield Scientific School

Oliver F Bishop U 1909 New Haven, Conn.
Government Forest Assistant

Arthur Douglas Bissell, Jr U 1906 Buffalo, N. Y.
Salesman, Rogers Brown and Company

Leslie Dayton Bissell G 1896 Munich, Germany
Principal, The Coit School for Boys

Frank Laughton Black U 1904 New Haven, Conn.
Resident Engineer, New York, New Haven and Hartford Railroad

Clarence Moore Blair G 1904 New Haven, Conn.
Consulting Engineer

Eugene Maurice Blake F 1906 New Haven, Conn.
Clinical Instructor in Ophthalmology, Yale University

John Charles Blake G 1903* College Station, Tex.
Teacher

Alice Frances Blood G 1910 Boston, Mass.
Assistant Professor of Chemistry, Simmons College

Rufus Frank Blount U 1911 Holyoke, Mass.
Chemist, Hampden Glazed Paper and Card Company

George Blumer F 1906 New Haven, Conn.
Dean of Yale Medical School

Bertram Borden Boltwood G 1896*† New Haven, Conn.
Professor of Radiochemistry, Yale University

Sydney Cecil Borg U 1895 New York City
Simon Borg and Company

Rowland Sherwood Bosworth U 1908 Canonsburg, Pa.
Chemist, Standard Chemical Company

Isaiah Bowman F 1906 New Haven, Conn.
Assistant Professor of Geography, Yale College

Frederic Quintard Boyer U 1908 New Haven, Conn.
Instructor in Mechanical Engineering, Sheffield Scientific School

Harold Cornelius Bradley F 1903 (Wisconsin CF 1907) Madison, Wis.
Assistant Professor of Physical Chemistry, University of Wisconsin

Henry Franklin Bradley U 1910 Salt Lake City, Utah
Metallurgist

Walter Minor Bradley G 1898 New Haven, Conn.
Instructor in Mineralogy, Yale University

Edward Arthur Bredt U 1897 New York City
Engineer, American Telephone and Telegraph Company

Zenas Marston Briggs U 1898 New York City
Engineer, Lehigh Valley Railway

Howard Stanley Bristol U 1902 Madison, Wis.
Assistant Director, Forest Products Laboratory

Wilton Everett Britton F 1902* New Haven, Conn.
State Entomologist, Agricultural Experiment Station

Howard Logan Bronson U 1900 Halifax, N. S.
Professor of Physics, Dalhousie University

Chester Kingsley Brooks U 1906 Cleveland, Ohio
Engineer, National Malleable Castings Company

Albert Turney Brown U 1902 Fairfield, Conn.
Sanitary Engineering, Whitehall Plumbing Company, New York

Charles Barto Brown CF 1895 Orono, Me.
Professor of Railroad Engineering, University of Maine

Earle Wayne Brown G 1903 Lorain, Ohio
Assistant Superintendent, National Tube Company

Ernest William Brown F 1908*† New Haven, Conn.
Professor of Mathematics, Yale University

James Brown F 1905 Jacksonville, Ill.
Professor of Chemistry, Illinois College

Raymond Lester Brown U 1908 Philadelphia, Pa.
Sales Engineer, General Electric Company

Theodore Henry Brown U 1910 New Haven, Conn.
Graduate Student, Yale University

Edward Earle Brownell U 1895 San Francisco, Cal.
Agriculture

Philip Embury Browning F 1895*† New Haven, Conn.
Assistant Professor of Chemistry, Yale University

Donald Bruce U 1906 Coeur d'Alene, Ida.
Forest Assistant, U. S. Forest Service

Kirk Bryan G 1911 Albuquerque, N. M.

Ralph Clement Bryant F 1908 New Haven, Conn.
Professor of Lumbering, Yale Forest School

Henry Andrews Bumstead CF 1895*† New Haven, Conn.
Professor of Physics, Director of Sloane Physical Laboratory, Yale

Henry Edward Burgess U 1904 New Haven, Conn.
With W. T. Fields Company Investment Securities

Horace Thomas Burgess F 1908 Madison, Wis.
Instructor in Mathematics, University of Wisconsin

Rollin Hillary Burr G 1904
(Deceased 1904)

Jacques Louis Buttner G 1909 New Haven, Conn.
Physician, Clinical Instructor, Yale University

Edward Herbert Cameron G 1905 New Haven, Conn.
Assistant Professor of Psychology, Yale University

Walter Scott Cameron G 1898 Southampton, L. I., N. Y.

Louis J Campbell U 1910 Youngstown, Ohio
Secretary to the President, Youngstown Sheet and Tube Company

William Joseph Canada U 1902 Denver, Col.
Engineer, Rocky Mountain Fire Underwriters Association

Frederic James Carnell U 1900
(Deceased 1902)

Samuel Winthrop Case U 1911 New Haven, Conn.
Graduate Student, Yale University

William Emanuel Cederberg U 1902 Rock Island, Ill.
Professor of Mathematics, Augustana College

Aimes Reading Chamberlain U 1901 Maplewood, N. J.
Physician

Guy Louis Chamberlin U 1905 Chicago, Ill.
Engineer

Robert Morse Chamberlin G 1901
(Deceased 1901)

Franklin Jerome Champlin U 1911 Schenectady, N. Y.
Student Engineer, General Electric Company

Perley Bickfad Chandler G 1908
(Deceased 1908)

Tatsung Chang U 1909 Koshing, Chekiang, China

Herman Haupt Chapman F 1908 New Haven, Conn.
Professor of Forestry, Yale University

Arsen Nishan Charbajian U 1911 New Haven, Conn.
Graduate Student in Physics, Yale University

Frederick Lincoln Chase F 1896*† New Haven, Conn.
Assistant Astronomer, Yale University

Alfred Knight Chittenden U 1900 Washington, D. C.
Forester, Indian Service, Department of the Interior

Samuel Hopkins Clapp G 1905 Pawtucket, R. I.
Mercantile Business

Eliot Round Clark U 1903 Baltimore, Md.
Instructor in Anatomy, Johns Hopkins Medical School

Herdman Fitzgerald Cleland G 1900* Williamstown, Mass.
Professor of Geology and Mineralogy, Williams College

Harry Trumbull Clifton U 1895 Pasadena, Cal.
Instructor in Physics, High School

Charles Francis Clise U 1911 Seattle, Wash.
Insurance Agent, E. A. Short and Company

Ralph Oakley Clock U 1901 New York City
Physician, Instructor in Obstetrics, New York Post-Graduate Medical School

Oliver Eugene Closson G 1905 Detroit, Mich.
Research Pharmacologist, Parke Davis and Company

Frederick Sears Coe U 1899 Newark, N. J.
Engineer, James A. Coe and Company

Wesley Roswell Coe F 1898*† New Haven, Conn.
Professor of Biology, Yale University

John Daniel Coffman G 1909 Weaverville, Cal.
Deputy Forester, U. S. Forest Service

Augustus Coit G 1898
(Deceased 1909)

Leon Jacob Cole F 1908 Madison, Wis.
Associate Professor of Experimental Breeding, University of Wisconsin

Clarence Lyman Collens U 1896 Cleveland, Ohio
President, Reliance Electric and Engineering Company

John Edward Collins U 1900 Weirton, Hancock Co., W. Va.
Chief Engineer, Phillips Sheet and Tin Plate Company

Roger Baldwin Colton U 1908 Fort Barrancas, Fla.
Second Lieutenant, U. S. Army, Coast Artillery Corps

Charles William Comfort, Jr U 1907 New Haven, Conn.
Student, Yale Medical School

William James Comstock F 1897* New Haven, Conn.
Instructor in Organic Chemistry, Yale University

Joseph Warren Cone U 1905 Greenwich, Conn.
Civil Engineer

Henry H Conover G 1903 Baltimore, Md.
Retired

George Macfeely Conwell F 1910 New Haven, Conn.
Instructor in Mathematics, Sheffield Scientific School

Charles Montague Cooke, Jr G 1899 Honolulu, H. I.
Curator, Bernice Bishop Museum

Charles Osmond Cooke G 1905 Providence, R. I.
Physician

Charlton Dows Cooksey F 1908 New Haven, Conn.
Instructor in Physics, Yale University

Frank Lawrence Cooper F 1909 New Haven, Conn.
Instructor in Physics, Sheffield Scientific School

Darrah Corbet U 1905 Seattle, Wash.
Salesman, Charles C. Moore and Company

William Wakefield Corbet U 1900 (Columbia U 1903) Brookville, Pa.
Engineering Salesman, Charles C. Moore and Company

Donald John Cowling G 1906 Northfield, Minn.
President, Carleton College

William Bronson Cramer U 1902 Globe, Ariz.
Chemist, Old Dominion Copper Company

Robert William Curtis F 1904* (Kansas G 1904) New York City
Instructor in Chemistry, College of the City of New York

David Raymond Curtiss G 1905 (Northwestern CF 1906) Evanston, [Ill.
Professor of Mathematics, Northwestern University

Paul Curts U 1905 Middletown, Conn.
Instructor in German, Wesleyan University

William Dick Cutter U 1899 Augusta, Ga.
Physician, Instructor in Physiology, University of Georgia

Haroutune Mugurditch Dadourian U 1903 New Haven, Conn.
Instructor in Physics, Yale University

Samuel Trask Dana G 1906 Washington, D. C.
Assistant Chief of Silvics, U. S. Forest Service

Archibald Lamant Daniels, Jr G 1911 New Haven, Conn.
Assistant in Mathematics, Sheffield Scientific School

William Darrach U 1897* New York City
Instructor in Surgery, Columbia University

John Staige Davis U 1895 Baltimore, Md.
Instructor in Surgery, Johns Hopkins Medical School

Vahram Edward Davoud G 1903 Provo, Utah
E. E. Telluride Power Company

Arthur Louis Day F 1896*† Washington, D. C.
Director, Geophysical Laboratory, Carnegie Institution

Arthur Lyman Dean F 1902* New Haven, Conn.
Assistant Professor of Industrial Chemistry, Sheffield Scientific School

Willard Parker Dean U 1902
(Deceased 1906)

Willard Joseph Denno U 1903 New York City
Physician, Department of Health

Allen Ross Diefendorf G 1904*† New Haven, Conn.
Lecturer in Psychiatry, Yale Medical School

Charles F Dike, Jr U 1904 Crystal Lake, Ill.
Engineer

Edward Lewis Dodd G 1904* (Iowa F 1905) Austin, Tex.
Instructor in Mathematics, University of Texas

Frederick F Dodd U 1905 New York City
Instructor in History, Ethical Culture School

Arthur Wayland Dox G 1908 (Pennsylvania U 1904) Ames, Ia.
Chemist, Iowa Agricultural Experiment Station, Iowa State College

Walter Remy Dray U 1908 Chicago, Ill.
Salesman, Fairbanks Morse and Company

Arthur H Driske U 1910 Roxbury, Mass.

J Andrew Drushel U 1905 St. Louis, Mo.
Professor of Geology, Harris Teachers' College

William Allen Drushel U 1905 New Haven, Conn.
Instructor in Chemistry, Yale College

Charles Wales Drysdale G 1911 Ottawa, Canada
Assistant Geologist, Canadian Geological Survey

Samuel William Dudley U 1900 Wilmerding, Pa.
Assistant Chief Engineer, Westinghouse Air Brake Company

William Waddell Duke G 1904 Kansas City, Mo.
Physician

Edward Lee Dummer U 1907 New Britain, Conn.
With American Hosiery Company

William Wheeler Duncan U 1902 Watertown, Mass.
Head Chemist, Hard Rubber Company

Wesley Earl Dunkle U 1908 La Touche, Alaska
Engineer, Beatson Copper Company

Herbert William Eales U 1904 St. Louis, Mo.
Engineer, St. Louis Office, General Electric Company

George Francis Eaton F 1898* New Haven, Conn.
Curator in Osteology, Peabody Museum, Yale University

Ernest Arthur Eddy U 1908 St. Louis, Mo.
Manufacturing

Graham Edgar G 1909 Charlotteville, Va.
Adjunct Professor of Chemistry, University of Virginia

George Joseph Nelson Edmondson U 1901 Rochester, N. Y.
Engineer, New York Central and Hudson River Railway

Gaston Holcombe Edwards G 1902 Orlando, Fla.
Physician and Surgeon

Augustus Hull Elliott U 1904 Philadelphia, Pa.
Sales Agent, American Brake Shoe and Foundry Company

Wilson Barton Emery U 1911 New Haven, Conn.
Student, Yale University

Harry Crawford English U 1906 Martinsville, N. J.
Farming

Charles Rhein Essick U 1905 Baltimore, Md.
Instructor in Anatomy, Johns Hopkins Medical School

Allan Chotard Eustis U 1898 Abbeville, La.
Physician

Alexander William Evans F 1895* New Haven, Conn.
Professor of Botany, Yale University

Philip Saffery Evans, Jr U 1895 Nanking, China
Professor of Pathology, East China Union Medical College

Arthur Woolsey Ewell U 1898* (Worcester CF 1908) Worcester,
Professor of Physics, Worcester Polytechnic Institute [Mass.

John Henry Fahrenbach G 1911 Washington, D. C.
Assistant, U. S. Forest Service

Charles Sherman Farnham F 1907 New Haven, Conn.
Assistant Professor of Civil Engineering, Yale University

Charles Everett Farr G 1902 New York City
Physician

James Linwood Fawley U 1906 Wissahickon, Philadelphia, Pa.
Engineer, F. M. Andrews and Company, Architects

Robert Ferguson G 1902 Bisbee, Ariz.
Physician, with Copper Queen Consolidated Mining Company

William Hastings Ferguson U 1901
Civil Engineer

Fred Gilbert Ferrey U 1898 Providence, R. I.
Engineer, Rhode Island Company

Harry Burr Ferris F 1897* New Haven, Conn.
Professor of Anatomy, Yale Medical School

Frank Richard Finch U 1904 (Michigan U 1904) Ann Arbor, Mich.
Instructor in Geometry, University of Michigan

Morris S Fine G 1911 New York City
Instructor, Post-Graduate Medical School

Henry Baldwin Fischer U 1904 New York City
Lawyer

Irving Fisher CF 1895*† New Haven, Conn.
Professor of Political Economy, Yale University

Joel Ellis Fisher, Jr U 1911 New York City

Emanuel Charles Fleischner U 1904 San Francisco, Cal.
Physician

William Ruthven Flint G 1909 Pasadena, Cal.
Professor of Chemistry, Throop Polytechnic Institute

Charles Paxson Flora U 1902 Watertown, Mass.
Assistant Superintendent, State Rubber Company

Harry Ward Foote U 1895* New Haven, Conn.
Assistant Professor of Chemistry, Yale University

William Ebenezer Ford, Jr U 1899* New Haven, Conn.
Assistant Professor of Mineralogy, Yale University

Frank Nugent Freeman F 1908 Chicago, Ill.
Instructor in Education and Psychology, University of Chicago

Lewis Fox Frissell U 1895 New York City
Physician, St. Luke's Hospital

John Marshall Gaines G 1897 New York City
Treasurer, Remington Arms and Ammunition Company

Arthur Sullivan Gale U 1899* Rochester, N. Y.
Professor of Mathematics, University of Rochester

Edson Fessenden Gallaudet G 1898 Norwich, Conn.
President, Gallaudet Engineering Company

Russell Tyner Gard G 1907 Indianapolis, Ind.
Attorney

William Smith Garnsey, Jr U 1902 Billings, Mont.
Manager, Billings Sugar Company

William Van Nest Garretson G 1904 Ann Arbor, Mich.
Instructor in Mathematics, University of Michigan

Albert Henry Garvin U 1903 Ray Brook, N. Y.
Superintendent, New York State Hospital for Incurable Tuberculosis

Frederick Lamont Gates U 1909 Baltimore, Md.
Medical Student, Johns Hopkins University

Harry Courtland Gause G 1899
(Deceased 1899)

Isaac Wheeler Geer C 1895 Logansport, Ind.
Superintendent, Logansport Division, Pennsylvania Lines

Herbert Charles Gibner U 1903 Fort McDowell, Cal.
Captain, Medical Corps, U. S. Army

Robert Banks Gibson U 1902* (Missouri F 1907) Columbia, Mo.
Assistant Professor of Chemistry, University of Missouri

William John Gies G 1896* (Columbia CF 1903) New York City
Professor of Biological Chemistry, Columbia University

Harry Van Vleck Gifford U 1900 Los Angeles, Cal.
In Business

Josiah Allen Gilbert CF 1895 Portland, Ore.
Physician

Henderson Gilbert G 1901 Harrisburg, Pa.
Henry Gilbert and Son, Hardware

Ralph Davis Gilbert G 1903 Boston, Mass.
With American Agricultural Chemical Company

Charles M Gill U 1910 St. Louis, Mo.
Department of Geography and History, Teachers' College

Maurice Hope Givens U 1909 Ithaca, N. Y.
Instructor in Biochemistry, Cornell Medical College

Samuel Goldschmidt U 1911 New Haven, Conn.
Graduate Student Assistant, Yale University

Ralph Edward Goodwin U 1908 East Hartford, Conn.
Transitman, New York Central and Hudson River Railway

Lemuel Whittington Gorham U 1906 Baltimore, Md.
Medical House Officer, Johns Hopkins Hospital

Frederick Shand Goucher G 1911 New Haven, Conn.
Student, Graduate School, Yale University

Clarence Flack Graham U 1909 Baltimore, Md.
Medical Student, Johns Hopkins Medical School

Justin Frank Grant U 1898 Atlanta, Ga.
Professor of Anatomy, College of Physicians and Surgeons

Richard Frank Grant U 1899 Cleveland, Ohio
General Counsel, M. A. Hanna and Company

William Anthony Granville F 1895* Gettysburg, Pa.
President, Pennsylvania College

Arthur Harmount Graves U 1900 New Haven, Conn.
Assistant Professor of Botany, Sheffield Scientific School

Henry Solon Graves F 1901*† Washington, D. C.
Chief Forester, U. S. Forest Service

Carl Emil Green U 1907 Washington Depot, Conn.
Civil Engineer

Herbert Ernest Gregory F 1908*† New Haven, Conn.
Professor of Geology, Yale University

Herbert Hartley Guest U 1908 New Haven, Conn.
Assistant in Chemistry, Sheffield Scientific School

George Frederick Gundelfinger U 1906 New Haven, Conn.
Instructor in Mathematics, Sheffield Scientific School

Frank Eugene Hale G 1902* New York City
Chemist in Charge, Mt. Prospect Laboratory

Allan Everett Hall U 1895 Milwaukee, Wis.
Sales Engineer, Allis-Chalmers Company

Francis Jenks Hall U 1899 Peking, China
Professor of Practice of Medicine, North China Union Medical College

Robert William Hall U 1895* South Bethlehem, Pa.
Professor of Biology, Lehigh University

William S H Hamilton U 1910 Schenectady, N. Y.
With General Electric Company

George Arthur Hanford U 1898* (Syracuse F 1906) Syracuse, N. Y.
Chemist, G. C. Hanford Manufacturing Company

Robert Whitney Hanington U 1896 Denver, Col.
Mechanical Engineer, Hendric and Bolthoff Company

Isaac Faust Harris G 1905 Yonkers, N. Y.
Consulting Chemist, Arlington Chemical Company

Frederick Brown Harrison U 1899 Port Deposit, Md.
Teacher, Jacob Tome Institute

Ross Granville Harrison F 1908*† New Haven, Conn.
Professor of Comparative Anatomy, Yale University

John Bryant Hartwell U 1900 Boston, Mass.
Physician

Samuel Clark Harvey G 1910 New Haven, Conn.
Fellow in Pathology, Yale Medical School

Herbert Hastings G 1898 Rochester, N. Y.
Designer, German-American Button Company

Franke Stuart Havens U 1896 Philadelphia, Pa.
Assistant to President, Harrison Brothers Company, Incorporated

Herbert Edwin Hawkes F 1898*† New York City
Professor of Mathematics, Columbia University

Ralph Chipman Hawley F 1908 New Haven, Conn.
Assistant Professor of Forestry, Yale University

William Patrick Healey U 1896 New York City
Physician

Fred Harvey Heath G 1909 (Case F 1910) Middletown, Conn.
Instructor in Chemistry, Wesleyan University

Earle Raymond Hedrick G 1902* (Missouri CF 1905) Columbia, Mo.
Professor of Mathematics, University of Missouri

Angelo Heilprin F 1907*†
(Deceased 1907)

Yandell Henderson F 1899* New Haven, Conn.
Professor of Physiology, Yale Medical School

Herbert Thacker Herr U 1899 East Pittsburgh, Pa.
Vice-President and General Manager, Westinghouse Machine Company

William Worthington Herrick U 1902 New York City
Instructor in Medicine, Columbia University Medical School

Nathaniel Herz U 1908 Lead, S. D.
Chemist, Homestake Mining Company

Lawrence Ilsley Hewes F 1901* Washington, D. C.
Senior Highway Engineer, Office of Public Roads

Donnel Foster Hewett G 1911 Washington, D. C.
Metallurgical Engineer, U. S. Geological Survey

Frederick William Heyl U 1904 Laramie, Wyo.
Assistant Professor of Chemistry, University of Wyoming

Warren Witherell Hilditch G 1909 (Syracuse F 1909) New York City
Chief Chemist, Dr. E. E. Smith Laboratory

Albert Hileman U 1903
(Deceased 1908)

Arthur Joseph Hill U 1910 New Haven, Conn.
Assistant in Chemistry, Sheffield Scientific School

Charles Grovt Hilliard G 1902 Redlands, Cal.
Physician

Bedford Forrest Hines U 1902 Decherd, Tenn.
Engineering

Edgar Clarkson Hirst G 1909 Concord, N. H.
State Forester of New Hampshire

Henry Steadman Hitchcock G 1895 Woodbury, Conn.
Hardware Business, F. F. Hitchcock

James Ladd Hitchcock G 1898 Depew, N. Y.
Assistant Engineer, Construction Department, New York Central Railroad

Edson Allen Hoffman G 1897 Frankfort, Ky.
Assistant Manager, W. A. Gaines and Company

Frederick Stearns Hollis G 1903* Indianapolis, Ind.
Assistant Professor of Organic Chemistry, Indiana University Medical School

Davenport Hooker U 1908 New Haven, Conn.
Instructor in Anatomy, Medical Department, Yale University

Lemuel Robert Hopton G 1896 Plainfield, N. J.
Superintendent, The Enos Company

George Merriam Howard U 1895 Philadelphia, Pa.
Chief Chemist, Electric Storage Battery Company

James Leland Howard U 1897 Hartford, Conn.
Assistant Secretary, Travelers Insurance Company

Harry Arthur Stevens Howarth U 1899 South Bethlehem, Pa.
Assistant Professor of Mechanical Engineering, Lehigh University

Ernest Howe U 1898* Newport, R. I.
Consulting Geologist

William Thomas Hildrup Howe CF 1895 Cincinnati, Ohio
With American Book Company

Yuen-li Hsia G 1907 Berlin, Germany
Chinese Legation

Yao-Chang H Hsin U 1910

Albert Kemp Hubbard G 1901 (Kansas U 1901) Alva, Okla.
City Engineer

James Lanman Hubbard U 1907 Norwich, Conn.
Secretary, A. H. Hubbard Company

Frederick George Hughes G 1900 Bristol, Conn.
Chief Engineer, New Departure Manufacturing Company

Albert Wallace Hull G 1909 Worcester, Mass.
Instructor in Physics, Worcester Polytechnic Institute

John Irving Hull U 1909 Schenectady, N. Y.
With General Electric Company

Edward Hicks Hume U 1897 Changsha, China
Medical Missionary, Yale Mission

Frederick Brewster Humphreys U 1899 New York City
Instructor in Pathology, Columbia University

George Hoppin Humphreys, Jr U 1898 New York City
Physician, St. Luke's Hospital

John Wilson Hunt U 1904 Seattle, Wash.
Physician

Louis Doremus Huntoon F 1905* New York City
Consulting Mining Engineer

George Pelton Hutchins U 1899 Lamontville, N. Y.
Agriculture

Lewis Orrin Hutchinson U 1910 Port Deposit, Md.
Instructor in Mathematics and Science, Tome School for Boys

William Albert Hyde U 1901 Washington, D. C.
Electrical Expert, Bureau of Ordnance, Navy Department

Charles Anthony Ingersoll CF 1895 New Haven, Conn.
Mechanical Engineer, Winchester Repeating Arms Company

William Lorne Irvine U 1903 Newport, R. I.
Assistant Surgeon, U. S. Navy

David Duryea Irwin U 1908 New York City
Mining Engineer, W. Rowland Cox and Staff

Holmes Condict Jackson U 1896*† New York City
Professor of Physiology, University and Bellevue Hospital Medical College

Reginald Jackson G 1903 Chicago, Ill.
Superintendent of Construction, The Foundation Company

George Samuel Jamieson U 1901 New Haven, Conn.
Assistant Professor of Analytical Chemistry, Yale University

Nejib H Jebejian U 1909 New York City
Engineering

Carl Oscar Johns G 1905 New Haven, Conn.
Assistant Professor of Chemistry, Yale University

Alexander Johnson U 1895 New York City
Chief Engineer, Department of Bridges

Frank Elmer Johnson G 1910 Providence, R. I.
Physician, Rhode Island Hospital

Treat Baldwin Johnson G 1898* New Haven, Conn.
Assistant Professor of Organic Chemistry, Sheffield Scientific School

Louis Cleveland Jones G 1898* Syracuse, N. Y.
Laboratory Manager, Solvay Process Company

Charles Hubbard Judd F 1904*† Chicago, Ill.
Head of Department of Education, University of Chicago

Charles Sheldon Judd G 1906 Honolulu, H. I.
Commissioner of Public Lands, U. S. Forest Service

Albert Galloway Keller F 1903† New Haven, Conn.
Professor of Science of Society, Yale University

Willett Harold Kellogg, Jr U 1906 New Haven, Conn.
Secretary, Girvan-Kellogg Company

Trumbull Kelly U 1900
(Deceased 1900)

Cyrus Hamilton Kendall U 1903
(Deceased 1904)

Herbert Leopold Kennedy U 1906 Yonkers, N. Y.
Nose and Throat Specialist

Valentine Odell Ketcham U 1908 Keokuk, Ia.
Civil Engineer, Hydraulic Engineering Company of Maine

Skunkichi Kimura G 1896 Nagawa, Yokosuka, Japan
Wireless Engineer, Naval Ordnance Department

Richard Shelton Kirby U 1896 Gettysburg, Pa.
Professor of Civil Engineering, Pennsylvania College

William Barri Kirkham G 1906 New Haven, Conn.
Instructor in Biology, Yale University

Charles Louis Kirschner A 1903 New Haven, Conn.
Principal, High School

Israel Simon Kleiner U 1906 New York City
Assistant in Physiology and Pharmacology, The Rockefeller Institute

Simon Bretzfelder Kleiner U 1911 New Haven, Conn.
Student, Yale Medical School

David Albert Kreider F 1897* New Haven, Conn.
Assistant Professor of Physics, Yale University

Joseph Lehn Kreider F 1905 Annville, Pa.
Instructor in Chemistry, Lebanon Valley College

Richard Krementz U 1898 Newark, N. J.
Superintendent of Krementz Company, Manufacturing Jewelers

Beverly Waugh Kunkel U 1901 New Haven, Conn.
Instructor in Biology, Yale University

Charles Scott Landers U 1900 New York City
Consulting Civil Engineer

John Edward Lane G 1903 North Yakima, Wash.
Physician

Ralph Walker Langley G 1910 New Haven, Conn.
Chemist, Acme Wire Company

Robert Carr Lanphier G 1897 Springfield, Ill.
Manager, Sangamo Electric Company

Ellis Earle Lawton G 1905 Granville, Ohio
Department of Physics, Denison University

Willis Sargent Leggett, Jr U 1906 New York City
Salesman, General Electric Company

David Deitch Leib F 1911 New Haven, Conn.
Instructor in Mathematics, Yale University

Carl Starker Leopold U 1911 Burlington, Ia.

Oliver Clarence Lester F 1903 (Colorado F 1907) Boulder, Col.
Professor of Physics, University of Colorado

Frederick B Lewis U 1909 Chicago, Ill.
With Pennsylvania Railroad Company

Howard Bishop Lewis U 1908 New Haven, Conn.
Assistant in Physiological Chemistry, Sheffield Scientific School

Charles Davenport Lockwood U 1900 Stamford, Conn.
Lawyer, Judge of Probate Court, District of Stamford

Edwin Hoyt Lockwood CF 1895* New Haven, Conn.
Assistant Professor of Mechanical Engineering, Yale University

William Harding Longley G 1907 Baltimore, Md.
Associate Professor of Botany, Goucher College

William Raymond Longley F 1907 (Chicago G 1905) New Haven, Conn.
Assistant Professor of Mathematics, Yale University

Gerald Francis Loughlin G 1905 Boston, Mass.
Instructor in Geology, Massachusetts Institute of Technology

Albert Sheley Low U 1911 New Haven, Conn.
Graduate Student Sanitary Engineering, Yale University

Abbot Lawson Lowe U 1906
(Deceased 1908)

Herbert Lucker U 1901
(Deceased 1902)

Richard Swann Lull F 1907 New Haven, Conn.
Professor of Vertebrate Paleontology, Yale University

Graham Lusk G 1897*† New York City
Professor of Physiology, Cornell University Medical College

John Franklin Lyman G 1908 Columbus, Ohio
Associate Professor of Agricultural Chemistry, Ohio State University

Charles Tyler Lyon U 1906 New Haven, Conn.
Civil Engineering, New York, New Haven and Hartford Railroad Company

George Grant MacCurdy F 1899*† New Haven, Conn.
Assistant Professor of Archaeology, Yale University

Kenneth Gerald MacKenzie G 1907 Bayonne, N. J.
Chemist, The Texas Company

Stanley Robinson MacLane U 1906 Boston, Mass.
Mechanical Engineer, B. F. Sturtevant Company

Ralph Julian Marsh U 1907 Wallingford, Conn.
Chief Chemist, R. Wallace and Sons Manufacturing Company

William Crosby Marshall F 1896* New Haven, Conn.
Assistant Professor of Drawing, Sheffield Scientific School

James Smith Martin G 1905 Watertown, Conn.
Physician

Carlton Howard Maryott U 1911 Dallas, Tex.
Professor of Chemistry, Baylor Medical College

Max Mason F 1905* Madison, Wis.
Professor of Mathematical Physics, University of Wisconsin

Champion Herbert Mathewson U 1902 New Haven, Conn.
Assistant Professor of Metallurgy, Sheffield Scientific School

Matataro Matsumoto G 1899 Kyoto, Japan
Professor of Psychology, Imperial University

Ralph Nelson Maxson G 1904 Lexington, Ky.
Professor of Inorganic Chemistry, Kentucky State University

Hatsuji Mayessawa U 1905 Tokyo, Japan
With Takata and Company, Marunowchi

Cloyd North McAllister F 1901* Warrensburg, Mo.
Professor of Psychology, State Normal School

Selim Walker McArthur U 1908 Chicago, Ill.
Student, Rush Medical School

Burtis Barton McCarn U 1909 Chicago, Ill.
Structural Engineering with J. T. Ryerson and Son

James Farley McClelland F 1910 New Haven, Conn.
Professor of Mining Engineering, Yale University

Albert Steele McCullough U 1905 Coleraine, Minn.
Manager, Iron Range Coal and Ice Company

John Stokes McCune U 1907 Columbus, Ohio
Assistant Chemist, Water Purification Works

Henry Edwin McDermott U 1896
(Deceased 1898)

Boynton Wells McFarland A 1896 New Haven, Conn.
Instructor in Chemistry, High School

David Ford McFarland F 1909 (Kansas U 1899; Illinois F 1910)
Assistant Professor of Chemistry, University of Illinois [Urbana, Ill.

Lawrence Riley McWeeney G 1907 Port Chester, N. Y.
Accountant, Russell, Burdsall and Ward Bolt and Nut Company

Herbert Edwin Medway G 1904 Daleville, Pa.
Teaching

Ralph Hill Melcer U 1903 New London, Conn.
Superintendent, Palmer Brothers Company

Lafayette Benedict Mendel CF 1895*† New Haven, Conn.
Professor of Physiological Chemistry, Sheffield Scientific School

Anthony Joseph Mendillo G 1907 New Haven, Conn.
Physician and Surgeon

George Albert Menge G 1903 Washington, D. C.
Technical Assistant in Pharmacology, Public Health Service

Henry Franklin Merriam G 1900 Summit, N. J.
Research Specialist, General Chemical Company, New York

Ishiro Mijake G 1901 Okayama, Japan
Professor of Education, Sixth National College

David Henry Miller G 1904 Georgetown, Conn.
Assistant Superintendent, Gilbert and Bennett Manufacturing Company

Edwin Cyrus Miller U 1907 Manhattan, Kan.
Instructor in Botany, Kansas State Agricultural College

Hiram Miller U 1901 La Paz, Bolivia
Civil Engineer, Bolivia Railway Company

John Milton Miller U 1904 Washington, D. C.
Assistant Physicist, Bureau of Standards

Clark Godell Mitchell U 1909 (Columbia U 1911) Britannia Beach, [B. C.
Engineer, Britannia Mining and Smelting Company

Philip Henry Mitchell U 1904 (Brown F 1904) Providence, R. I.
Assistant Professor of Physiology, Brown University

Walter Louis Mitchell G 1895 New York City
With Tiffany and Company

George Webber Mixter G 1896 Moline, Ill.
Vice-President, Deere and Company

Seth Enoch Moody G 1906 (Wisconsin CF 1906) St. Louis, Mo.
Assistant City Chemist

Benjamin Moore G 1899 New York City

Sydney Luard Moore G 1905 Denver, Col.
District Forester, U. S. Forest Service

Edward Eugene Moran U 1904 Yochow, China
Government Service

James Caddall Morehead G 1905 Evanston, Ill.
Instructor in Education, Northwestern University

William Conger Morgan U 1896*† (California CF 1901) Berkeley, Cal.
Assistant Professor of Chemistry, University of California

Frederick Hitchcock Morley U 1899 Denver, Col.
Mining Engineer

Guy Burl Morrison U 1904 Wilmette, Ill.
Salesman, D. Appleton and Company

Lawrence Stillman Morrison U 1911 Redlands, Cal.

Louis Sutliffe Murphy G 1907 Washington, D. C.
Examiner, U. S. Forest Service

Ralph E Myers U 1909 Battle Creek, Mich.
Chemist at Battle Creek Sanitarium

Victor Caryl Myers G 1909 Albany, N. Y.
Lecturer in Chemistry, New York Post-Graduate Medical School

Andrew Burton Mygatt G 1901 San Francisco, Cal.
Engineering, Southern Pacific Company

Arthur Theodore Nabstedt U 1910 Davenport, Ia.
Civil Engineer, Panama Canal

Rokuro Nakaseko G 1900 Kyoto, Japan
Professor of Physiological Chemistry, Doshisha College

Homer Chidsey Neal U 1909 New Haven, Conn.
Graduate Student, Yale University

Theophilus Nelson F 1896 Concord, N. H.
Instructor in Mathematics, St. Paul's School

Frederick Edwin Newton CU 1895 Andover, Mass.
Instructor in Mathematics, Phillips Academy

Howard Douglas Newton G 1908 Storrs, Conn.
Professor of Chemistry, Connecticut Agricultural College

George Elwood Nichols G 1906 New Haven, Conn.
Instructor in Botany, Yale University

Henry James Nichols G 1901 Washington, D. C.
Captain, Medical Corps, U. S. Army Medical School

William Wallace Nichols F 1895 New York City
Vice-President and Secretary, Allis-Chalmers Company

Levi Fatzinger Noble U 1907 Washington, D. C.
Junior Geologist, U. S. Geological Survey

Henry Archibald North G 1899 Chicago, Ill.
Chemist, Barrett Manufacturing Company

Herbert Brinkerhoff North G 1907 New Haven, Conn.
Assistant Professor of Drawing, Yale University

John Pease Norton F 1900† New Haven, Conn.
Writer

John Treadwell Norton, Jr U 1898 Philadelphia, Pa.
Member of Booth, Garrett and Blair, Chemists

Thomas Augustine O'Brien U 1899 New Haven, Conn.
Clinical Assistant, Yale University

Louis Albert Oldershaw U 1907 New Britain, Conn.
Civil Engineer, Oldershaw and McKernan

Herbert James Ord U 1904 Yonkers, N. Y.
Assistant Engineer, Board of Water Supply, City of New York

Raymond William Osborne U 1906 Chicago, Ill.
Teacher of Physical Sciences, Francis W. Parker School

Charles Leonard Overlander U 1901 Boston, Mass.
Physician

Brace Whitman Paddock U 1900 Pittsfield, Mass.
Physician and Surgeon

Leigh Page U 1904 New Haven, Conn.
Assistant in Physics, Sheffield Scientific School

Francis Ward Paine U 1910 Houghton, Mich.
Instructor, Mining Geology, Michigan College of Mines

Samuel Palkin U 1910 Washington, D. C.
Chemist, Bureau of Chemistry

Erik Schjoth Palmer G 1906 New Brunswick, N. J.
Instructor in Mathematics, Rutgers College

Howard Earle Palmer U 1907 Gloucester City, N. J.
Chemist, The Welsbach Light Company

Charles Joel Parker U 1900 Coventryville, N. Y.
Lumber Business

John Emilius Parker G 1905 East Orange, N. J.
Physician

William Huntington Parker G 1898* Boston, Mass.
Government Chemist, Custom House

Lewis Abraham Parsons U 1908 Grand Rapids, Mich.
Mining Engineer

Martin Kellogg Pasco, Jr U 1905 New Britain, Conn.
Superintendent American Hosiery Company

Robert Alexander Patterson U 1911 New Haven, Conn.
Graduate Student, Yale University

Silas Beach Patterson G 1897 New York City
Chief Draftsman, Bridge Department, New York Central and Hudson River

Harley T Peck U 1909 New Haven, Conn.
Chemist, Winchester Repeating Arms Company

Henry Waterman Peck U 1897 Rochester, N. Y.
Assistant Manager, Rochester Railway and Light Company

Henry Augustus Perkins G 1901*† Hartford, Conn.
Professor of Physics, Trinity College

Clarence Curtiss Perry G 1905 New Haven, Conn.
Instructor in Physics, Sheffield Scientific School

Charles Adams Peters G 1900 Amherst, Mass.
Assistant Professor of Soil Chemistry, Massachusetts Agricultural College

Isaac King Phelps F 1896* Washington, D. C.
Assistant Organic Chemist, U. S. Bureau of Chemistry

Wyllys Irvin Phelps U 1902 Pittsburgh, Pa.
Assistant Engineer, Pennsylvania Lines West of Pittsburgh

James Pierpont F 1896* New Haven, Conn.
Professor of Mathematics, Yale University

William Kinney Pike U 1897 Danielson, Conn.
Surveyor and Civil Engineer

Louis Valentine Pirsson CF 1895*† New Haven, Conn.
Professor of Physical Geology, Yale University

Frank Wesley Pitman U 1904 New Haven, Conn.
Instructor in History, Yale University

Washington Platt U 1911 Baltimore, Md.
Student, Johns Hopkins Medical School

Samuel James Plimpton U 1905 New Haven, Conn.
Assistant in Physics, Yale University

Joseph Ezekiel Pogue, Jr G 1909* Washington, D. C.
Assistant Curator, U. S. National Museum

Lawrence A Pomeroy U 1905 Cleveland, Ohio
Physician

Raymond Ashley Pond U 1909 Utica, N. Y.
Inspector, New York Central and Hudson River Railroad

Charles Talbot Porter 2nd U 1907 Cleveland, Ohio
Instructor in English

John Henry Porter U 1897 Denver, Col.
With Boetcher, Porter and Company, Brokers

Milton Brockett Porter G 1901* Austin, Tex.
Professor of Mathematics, University of Texas

Joseph Hyde Pratt U 1896*† Chapel Hill, N. C.
State Geologist of North Carolina and Consulting Engineer

Nathan Tolles Pratt G 1902 Bridgeport, Conn.
Physician

Edward Hamilton Prior U 1903 Chicago, Ill.
Engineer and Salesman, John Baker, Jr.

Oscar Stoddard Pulman G 1902 Cleveland, Ohio
Assistant Superintendent, National Carbon Company

David Lindsey Randall G 1906 Baldwin, Kan.
Professor of Chemistry, Baker University

Joseph Chappell Rayworth U 1906 (Washington F 1911) St. Louis, Mo.
Instructor of Mathematics, Washington University

Arthur Bernhard Recknagel G 1906 Albuquerque, N. M.
Assistant District Forester, U. S. Forest Service

Henry Lewis Read U 1909 New York City
Student, Columbia University

Frederick Carl Reckert U 1911 Terre Haute, Ind.
Assistant Manager, Ehrmann Manufacturing Company

Chester Albert Reeds G 1907 Bryn Mawr, Pa.
Associate in Geology, Bryn Mawr College

George Harold Reid U 1901 Schenectady, N. Y.
With General Electric Company

Leo Frederick Rettger F 1902* New Haven, Conn.
Assistant Professor of Bacteriology, Yale University

Alfred Newton Richards G 1898* (Columbia G 1903) Philadelphia, Pa.
Professor of Pharmacology, University of Pennsylvania

Roland George Dwight Richardson F 1904 (Brown F 1904) Providence, R. I.
Assistant Professor of Mathematics, Brown University

Philip Franklin Ripley U 1897 Lawrence, Mass.
Chemist, Wood Worsted Mills

Allan Douglas Risteen G 1901* Hartford, Conn.
Expert Engineer, Travelers' Insurance Company

Laurence Ballard Robbins U 1908 Westfield, Mass.
With Crane Brothers

Charles Asaph Roberts U 1902 New York City
Attorney at Law

Edward Ellis Pierpont Roberts U 1904
(Deceased 1904)

Edwin Jay Roberts U 1911 Waterville, Me.
Instructor in Chemistry, Colby College

Colin Charles Robertson G 1906 Bloomfonteine, Orange Free State
Assistant Conservator, Forest Department, University of South Africa

Heaton Ridgeway Robertson U 1906 New Haven, Conn.
Assistant Engineer, New York, New Haven and Hartford Railroad Company

Henry Hollister Robinson F 1902 Hartford, Conn.
Geologist

Joseph Wickham Roe CU 1895 New Haven, Conn.
Assistant Professor of Mechanical Engineering, Sheffield Scientific School

William Cumming Rose G 1909 Philadelphia, Pa.
Instructor in Chemistry, University of Pennsylvania Medical School

Joseph Rosenbaum U 1907 Ithaca, N. Y.
Graduate Student, Cornell University

Eustis Thacher Rowland U 1911 New Haven, Conn.
Post-Graduate Student, Yale University

Henry Camp Russ U 1902 Hartford, Conn.
Physician, Charter Oak Private Hospital

Ely Morgan Talcott Ryder U 1896 New York City
Engineer, Third Avenue Railway Company

Tadasu Saiki G 1907 Kitayamasaki, Iyo, Japan
Physiological Chemist

Walter Murray Sanders U 1899 Marion, Ky.
Mining

James Cox Sanderson U 1907 New Haven, Conn.
Graduate Student in Physics, Yale University

Arthur Sandiford U 1904 Norwalk, Conn.
Instructor in Harstrom School

Charalambos George Savidis U 1906
(Deceased 1909)

Louis Saxon U 1895 Easton, Pa.
Engineering

Marvin McRae Scarbrough G 1906 New Haven, Conn.
Instructor in Pharmacology, Yale Medical School

Jacob Parsons Schaeffer F 1911 New Haven, Conn.
Assistant Professor of Anatomy, Yale University

Orville Hickok Schell U 1900 New Rochelle, N. Y.
Physician

Edward Christian Schneider G 1901* Colorado Springs, Col.
Professor of Biology, Colorado College

Samuel Ray Scholes G 1911 Pittsburgh, Pa.
Fellow in Industrial Research, University of Pittsburgh

Charles Schuchert F 1906*† New Haven, Conn.
Professor of Paleontology, Yale University

Edward Wheeler Scripture G 1895*† New York City
Associate in Psychiatry, Columbia University

Lawrence Selling U 1904 Portland, Ore.
Physician

William Albert Setchell CF 1895*† (California CF 1901) Berkeley, Cal.
Professor of Botany, University of California

Herbert Lee Seward U 1906 New Haven, Conn.
Instructor in Mechanical Engineering, Sheffield Scientific School

Howard Francis Shattuck U 1911 Columbus, Ohio

Ernest Wilson Sheldon U 1907 Strathcona, Alberta
Assistant Professor of Mathematics, University of Alberta

Norman Arthur Shepard U 1910 New Haven, Conn.
Instructor in Chemistry, Sheffield Scientific School

William Kent Shepard U 1897* New Haven, Conn.
Instructor in Mechanics, Yale University

Edward James Sherwood U 1898 Mitchell, S. D.
Manager, Mitchell Power Company

Frederick Augustus Sherwood U 1901 Ottawa, Ill.
Engineering

Zenas Harrison Sikes G 1898 Yonkers, N. Y.
Engineer, New York Central and Hudson River Railroad

Max Silverman U 1901 Philadelphia, Pa.
Chemist, The Berg Company

Max Ruskin Smirnow F 1910 New Haven, Conn.
Instructor in Pathology, Yale Medical School

Burke Smith G 1902* Chicago, Ill.
Special Investigator, Chicago Telephone Company

Henry DeWitt Smith G 1908 New London, Conn.
Mining Geologist, with Spurr and Cox, Inc.

Philip Augustus Smith U 1910 New Haven, Conn.
Manufacturing

Percey Franklyn Smith F 1897*† New Haven, Conn.
Professor of Mathematics, Yale University

Ernest William Sniffen U 1896 Hampton, Va.
Draftsman, Newport News Shipbuilding Company

Jesse Wheat Speidel U 1900 Wheeling, W. Va.
General Manager, City and Elm Grove Railroad Company

Leavenworth Porter Sperry G 1902 Waterbury, Conn.
Manager, Scoville Manufacturing Company

Roger Sherman Sperry U 1910 New Haven, Conn.
Graduate Student, Mining Engineer, Sheffield Scientific School

Earl Tappan Stannard U 1905 Flat River, Mo.
Milling Superintendent, Federal Lead Company

Medary Wilson Stark U 1908 St. Albans, W. Va.
Treasurer, American Column and Lumber Company

George Pratt Starkweather F 1896
(Deceased 1901)

Douglas Bovard Sterrett G 1904 Washington, D. C.
Assistant Geologist, U. S. Geological Survey

George Albert Stetson U 1910 New Haven, Conn.
Graduate Student, Yale University

John Minor Stetson U 1909 Burlington, Vt.
Instructor in Mathematics, University of Vermont

Neil Everett Stevens G 1911 Manhattan, Kan.
Instructor in Botany, Kansas Agricultural College

Henry Daniells Stowe U 1900 Perryville, Md.
Engineer

Carl Eben Stromquist G 1903* Laramie, Wyo.
Professor of Mathematics, University of Wyoming

Wendell Melville Strong G 1897* New York City
Associate Actuary, Mutual Life Insurance Company

Jeremiah Barrett Sullivan G 1906 New Haven, Conn.
Physician

Roscoe Henry Suttie U 1911 New Haven, Conn.
Assistant Instructor, Sheffield Scientific School

Charles Christian Swartz U 1900 South Norwalk, Conn.
Mining Engineer

Leonard Merrill Tarr F 1902 New Haven, Conn.
Forecaster, U. S. Weather Bureau

Charles Frederick Taylor U 1906 Hartford, Conn.
Assistant Engineer, Ford, Buck and Sheldon, Inc.

Edwy Lycurgus Taylor U 1901 New York City
Assistant Engineer, Electrical Division, New York Central and Hudson River

Horace Van Sands Taylor U 1908 Pittsburgh, Pa.
Engineer, Westinghouse Electric and Manufacturing Company

Thomas Smith Taylor G 1909 Urbana, Ill.
Instructor in Physics, University of Illinois

Henry Clarke Thacher U 1902 New York City
Physician, Assistant in Medicine, Columbia University

Clarence Proctor Thomas U 1911 New York City
Student, College of Physicians and Surgeons

John Hastings Thomas U 1904 Altoona, Pa.

Norman Campbell Thorne U 1902 Portland, Ore.
Instructor in Physics and Chemistry, Portland Academy

Wilder Tileston F 1911 New Haven, Conn.
Assistant Professor of Medicine, Yale University

Edwin Ward Tillotson G 1906 Lawrence, Kan.
Assistant Professor of Industrial Research, University of Kansas

Burton Isaac Tolles U 1901 Ansonia, Conn.
Physician

James William Toumey F 1901*† New Haven, Conn.
Professor of Silviculture, Yale University

John Clayton Tracy F 1897† New Haven, Conn.
Assistant Professor of Structural Engineering, Yale University

Joseph Henry Tracy G 1896 Philadelphia, Pa.
Assistant Chief Engineer, Electric Storage Battery Company

Elisha Grant Trowbridge CF 1895 Paterson, N. J.
Engineer, Passaic Structural Steel Company

Lucius Tuttle U 1901† (Pennsylvania F 1908) Philadelphia, [Pa.
Physician

William Henry Twenhofel U 1908 (Kansas F 1910) Lawrence, Kan.
Assistant Professor of Geology and Paleontology, University of Kansas

Horace Scudder Uhler F 1907 New Haven, Conn.
Assistant Professor of Physics, Yale University

William Leroy Ulrich U 1906 Manchester, Conn.
Superintendent of Roads and Bridges

Frank Pell Underhill U 1900* New Haven, Conn.
Assistant Professor of Physiological Chemistry, Yale University

Frederick Brown Utley U 1903 Pittsburgh, Pa.
Physician, Instructor in Medicine, University of Pittsburgh

William Valentine U 1897 Waterbury, Conn.
Chemist, Apothecaries Hall Company

Ralph Gibbs Van Name U 1899 New Haven, Conn.
Assistant Professor of Chemistry, Yale University

Willard Gibbs Van Name G 1899* Albany, N. Y.
Zoologist, New York State Museum

Darius Thompson Wadhams G 1899 Oswego, N. Y.
Chief Draftsman, Oswego Machine Works

Percy Talbot Walden F 1896* New Haven, Conn.
Assistant Professor of Chemistry, Yale University

Elisha Walker U 1900 New York City
With Salomon and Company

William Walker U 1899
(Deceased 1903)

William Knickerbocker Wallbridge G 1902 New York City
Vice-President, Lamont, Corliss and Company

Freeman Ward U 1903 New Haven, Conn.
Instructor in Geology and Mineralogy, Yale University

Hiram Lee Ward F 1906 Swarthmore, Pa.
Assistant Professor of Chemistry, Swarthmore College

Howard Thomas Ware U 1909 New York City
Engineer, James Stewart and Company

Charles Hyde Warren U 1896* Boston, Mass.
Associate Professor of Mineralogy, Massachusetts Institute of Technology

Edmund Leon Warren U 1906 Boston, Mass.
Production Engineer, W. H. McElwain Company

Everett Oyler Waters U 1911 New Haven, Conn.

Charles Harlan Watzek U 1911 Davenport, Ia.
Lumber Manufacturing

Clarence Eugene Weaver U 1899 Empalme, Sonora, Mexico
Engineer, Maintenance of Way, Southern Pacific Railway of Mexico

Ernest Charles Webster U 1904 New Haven, Conn.
Engineer, The Connecticut Company

Lewis Hill Weed U 1908 Baltimore, Md.
Medical Student, Johns Hopkins Medical School

Luther Cornelius Weeks CG 1903 Lafayette, Ind.
Instructor in Mathematics, Purdue University

Howard Frederick Weiss U 1905 Madison, Wis.
Assistant Director, Forest Products Laboratory

William Morris Weller CF 1895 Los Angeles, Cal.
Petroleum Engineer, Standard Oil Company

Arthur Cleveland Wells U 1906 New York City
Measurer, Wells and Newton Company, Engineers and Contractors

Harry Gideon Wells U 1895*† Chicago, Ill.
Associate Professor of Pathology, University of Chicago

Wilhelm David Allen Westfall U 1901* (Missouri F 1908) Columbia, Mo.
Assistant Professor of Mathematics, University of Missouri

Jacob Westlund F 1897* Lafayette, Ind.
Professor of Mathematics, Purdue University

Henry Lord Wheeler F 1896* New Haven, Conn.
Professor of Organic Chemistry, Yale University

Lynde Phelps Wheeler F 1896* New Haven, Conn.
Assistant Professor of Physics, Sheffield Scientific School

Frank Elbert Wheelock G 1910 Columbia, Mo.
Instructor in Physics, University of Missouri

George Hoyt Whipple U 1900 Baltimore, Md.
Physician, Johns Hopkins Hospital

William Arthur Whitcomb U 1895 New York City
General Manager, Great Northern Paper Company

Benjamin White G 1903* Brooklyn, N. Y.
Director, Department of Bacteriology, Hoagland Laboratory

George Ritch White U 1906 Danbury, Conn.
Electrical Department, New York, New Haven and Hartford Railroad Company

John Alan White U 1907
(Deceased 1908)

Edward Reed Whittemore U 1898 New Haven, Conn.
Physician

Levi Wilcox U 1897 Waterbury, Conn.
Secretary, Apothecaries Hall Company

Harley Richard Willard G 1911 New Haven, Conn.
Instructor in Mathematics, Yale University

Arthur Baldwin Williams, Jr U 1898 Cleveland, Ohio
General Agent, Cleveland Humane Society

Arthur Collins Williams U 1900 New York City
Special Agent, Mutual Life Insurance Company

Henry Shaler Williams CF 1895*† (Cornell F 1886) Ithaca, N. Y.
Professor of Geology, Cornell University

Joseph Dimock Williams U 1904 (Worcester C 1908) Fort Plain, N. Y.
In Department of State Engineer, New York

Merton Yarwood Williams G 1911 New Haven, Conn.
Instructor in Soils, Yale Forest School

Edwin Bidwell Wilson F 1901* Boston, Mass.
Associate Professor of Mathematics, Massachusetts Institute of Technology

Wallace Alvin Wilson F 1911 New Haven, Conn.
Instructor in Mathematics, Yale University

Elihu Smith Wing U 1911 New Haven, Conn.
Student, Medical College, Yale University

Andrew Lincoln Winton G 1900† Chicago, Ill.
Chief, Chicago Food Laboratory, U. S. Department of Agriculture

Robert P Winton U 1909 New Haven, Conn.

George Paul Wisdom U 1898

Cooper Wood U 1898 Detroit, Mich.
In Business

Edward Seymour Woodruff G 1906
(Deceased 1909)

Lorande Loss Woodruff F 1905 (Columbia G 1903) New Haven, Conn.
Assistant Professor of Biology, Sheffield Scientific School

John L Wortman G 1902 Long Pine, Neb.
Mining Engineer

Alfred Parks Wright U 1901
(Deceased 1901)

William Josiah Wright U 1908 New Haven, Conn.
Graduate Student, Yale University

Foh-Chung Yen G 1908 Changsha, China
Physician, Yale Mission College, Changsha

Bayard Daniel York U 1907 Hartford, Conn.
Teacher, High School

George Albert Young G 1904 Ottawa, Canada
Geological Survey

MINNESOTA CHAPTER

University of Minnesota, Minneapolis, Minnesota

Charter Dated April 23, 1896 Chapter Installed May 13, 1896

HISTORICAL SKETCH

The charter for a chapter at the University of Minnesota was granted April 23, 1896. Professor H. E. Smith, a member of the Alpha Chapter, presented the charter to the petitioners, who were installed as charter members at a meeting held May 13, 1896. A temporary organization was effected and arrangements were made for a permanent organization, and on May 14 the constitution and by-laws were provisionally adopted. The regular officers were elected and installed on May 15, and at the same meeting committees were appointed and the permanent organization was effected. The committee on extension reported May 18 and new members were elected from the faculty and graduate school. At a meeting held May 25, the constitution was adopted and new members were elected from the senior class. The first initiation was held with a banquet, June 2, 1896, since which time the annual banquet with the initiation has become an important event in the yearly calendar and is well attended by the alumni members. In response to an invitation from the Chapter, Doctor Henry T. Eddy gave the first Sigma Xi Commencement oration in the University Chapel June 3, 1896.

In February, 1898, a joint committee of Phi Beta Kappa and Sigma Xi entered into an agreement to provide for an oration at each Commencement, the societies to alternate in supplying a speaker. The agreement was ratified by both societies.

During the season of 1899 the Chapter had a representative at the Marine Biological Laboratory at Woods Hole.

In addition to the biennial Commencement oration many lectures have been given before the Society by distinguished scientists. One or two meetings a year have been devoted to a study of new apparatus, and an examination of new installations in the laboratories. Besides these meetings, the Society has had each year at least one social meeting.

W. H. K.

PUBLICATIONS

Society of the Sigma Xi, Minnesota Chapter, University of Minnesota, Minneapolis, 1908. pp. 39.

OFFICERS FOR 1911–12

President.....Frederic Edward Clements
Vice-President.....John Black Johnston
Recording Secretary.....William Henry Bussey
Corresponding Secretary.....David Ferdinand Swenson
Treasurer.....Anthony Lispenard Underhill
Councilor.....Henry Turner Eddy

MEMBERSHIP ROLL

William Edward Acomb U 1902 Donora, Pa.
Assistant Superintendent Donora Works, American Steel and Wire Company

George Gooding Ainslie U 1908* Nashville, Tenn.
Assistant, U. S. Bureau of Entomology, Station B

George Moritz Albrecht U 1906 Washington, D. C.
Assistant Examiner, U. S. Patent Office

David Arthur Allee U 1902 Schenectady, N. Y.
Civil Engineer, General Electric Company

Harry Winslow Allen G 1896 Minneapolis, Minn.
Physician and Surgeon

Deborah M Anderson U 1905 Minneapolis, Minn.
Instructor in Botany, West High School

John G Anderson U 1897 Minneapolis, Minn.
Assistant Engineer, Minneapolis and St. Louis Railway

Martin E Anderson U 1901 Washington, D. C.
Assistant Examiner of Patents

Walter Edmund Anderson U 1910 Princeton, N. J.
Graduate Student, Princeton University

Claribel Angle U 1897
(Deceased 1903)

William Remsen Appleby CF 1896*† Minneapolis, Minn.
Dean of School of Mines, University of Minnesota

Emmanuel Arthur Arzt U 1899 Pipestone, Minn.
Electrical Engineer

Clarence Elliott Austin U 1903 Moose Jaw, Saskatchewan
Treasurer and Manager, Saskatchewan Flour Mills Company, Ltd.

Walter L Badger F 1909 Washington, D. C.
Assistant Chemist, U. S. Bureau of Standards

Acel Conrad Baker U 1897 Fergus Falls, Minn.
Physician and Surgeon

Frank Morris Ball U 1906 Minneapolis, Minn.
The Tribune

Frederic Herbert Bass F 1902 Minneapolis, Minn.
Professor of Municipal and Sanitary Engineering, University of Minnesota

William Carroll Bass U 1899 Featherville, Idaho
Manager Gold Belt Mining Company

Albert Henry Bates U 1905 Muskegon, Mich.
Electrical Engineer

George Neander Bauer F 1901*† Minneapolis, Minn.
Professor of Mathematics, University of Minnesota

Annabel Beach U 1898 New York City
(Mrs Bertram G Knight)

Richard Laurence Beaulieu U 1902 Seattle, Wash.
Resident Engineer, Great Northern Railway

George Becker U 1897 Minneapolis, Minn.
Assayer

Walter Clarence Beckjord U 1909 St. Paul, Minn.
Engineer, St. Paul Gas Light Company

Fred William Bedford U 1900 Chicago, Ill.
Chemist and Superintendent, Sprague-Warner Company

Charles John Bell CF 1896
(Deceased 1903)

Cora Bennett U 1898 Minneapolis, Minn.
Bookkeeper

Ella Gustavia Berger G 1909 St. Paul, Minn.
Teacher of Mathematics, Mechanic Arts High School

Nanda M. Berger U 1909 Hutchinson, Minn.
Teacher, Hutchinson High School

Charles Peter Berkey F 1906* (Columbia G 1904) New York City
Assistant Professor of Geology, Columbia University

Adam Carl Beyer U 1896
(Deceased 1901)

Theodore Alexander Beyer U 1903 Salt Lake City, Utah
Vice-President, Jas. J. Burke and Company

Lewis Scoville Billau U 1905 Baltimore, Md.
Assistant Engineer, Electrical Department, Baltimore and Ohio Railway

James D Bilsborrow U 1910 Crookston, Minn.
Instructor in Agronomy, University of Minnesota Experiment Station

Elmer Bisbee U 1905 Denver, Col.
Contracting Engineer, Minneapolis Steel and Machinery Company

Oscar Bernard Bjorge U 1907 Duluth, Minn.
Engineer, Draftsman, Clyde Iron Works

Gilbert Ames Bliss F 1901* (Chicago F 1903) Chicago, Ill.
Associate Professor of Mathematics, University of Chicago

Edward Bates Block U 1898 Atlanta, Ga.
Physician and Surgeon

Nathan Herschel Bogue U 1904 Washtucua, Wash.
Engineer, Portland and Seattle Railway

Ole Martin Bolme U 1910 Chicago, Ill.
Draftsman, American Bridge Company

Oliver Bowles F 1911 Minneapolis, Minn.
Instructor in Geology, University of Minnesota

Robert Russell Boyd U 1905 Globe, Ariz.
Mining Engineer, Old Dominion Copper and Smelting Company

Henry Martyn Bracken F 1904*† St. Paul, Minn.
Executive Officer, State Board of Health

Charles John Brand U 1902* Washington, D. C.
Physiologist, U. S. Department of Agriculture

Benjamin Francis Parlett Brenton F 1910 Minneapolis, Minn.
Instructor in Chemistry, University of Minnesota

Florence Mayfred Briggs U 1909 St. Paul, Minn.
Teacher of Science, High School

Alvah E Brockway U 1909 Chicago, Ill.
Student Apprentice, Westinghouse Electric Company

William Ellsworth Brooke F 1902*† Minneapolis, Minn.
Professor of Mathematics, University of Minnesota

Edgar Dewight Brown F 1907* Minneapolis, Minn.
Professor of Pharmacology, University of Minnesota

John C Brown F 1902 Minneapolis, Minn.
Assistant Professor of Biology, University of Minnesota

Rosamond (Thompson) Bruce U 1901 Minneapolis, Minn.
(Mrs Charles A Bruce)

Frederick William Buck U 1909 Duluth, Minn.
Oxy-Acetylene Welding and Cutting

Max Whitney Buell U 1902 Takoma Park, D. C.
Farmer

Coates Preston Bull F 1905* St. Anthony Park, St. Paul, Minn.
Associate Professor of Agriculture, University of Minnesota

Ellen Adelia (Lamoreaux) Burger U 1901 Miles City, Wash.
(Mrs J Archie Burger)

Kelvin Burns G 1908 Lick Observatory, Cal.
Astronomer

Paul Colburn Burrill U 1902 Milwaukee, Wis.
Engineer, Worden-Allen Company

William Henry Bussey F 1908* (Chicago G 1903) Minneapolis, Minn.
Assistant Professor of Mathematics, University of Minnesota

Frederic King Butters U 1899* Minneapolis, Minn.
Assistant Professor of Botany, University of Minnesota

Charlotte Deming Cahoon U 1897 Butte, Mont.
Teacher, High School

Albert A Campbell U 1909 St. Paul Minn.
Physician and Surgeon

John E Campbell U 1899 South St. Paul, Minn.
Physician and Surgeon

George de S Canavarro U 1908 New Haven, Conn.
Graduate Student, Yale University

Jessie F Caplin U 1897 Minneapolis, Minn.
Teacher of Chemistry, West High School

Henry Benjamin Carey U 1900 (California F 1906) San Francisco, [Cal.
Physician and Surgeon

George Albertus Casseday U 1896
(Deceased)

Charles Henry Chalmers U 1896 Minneapolis, Minn.
(Retired)

Edward Joseph Cheney U 1904 Schenectady, N. Y.
Designing Engineer, General Electric Company

Edward Gheen Cheyney U 1907 St. Anthony Park, St. Paul, Minn.
Director of College of Forestry, University of Minnesota

Alice May Child U 1901 Milwaukee, Wis.
Science Teacher, Milwaukee High School

Peter Christianson F 1896 Minneapolis, Minn.
Professor of Metallurgy, University of Minnesota

Thomas Alfred Clark F 1899
(Deceased 1901)

Charles Patrick Clarke U 1908 St. Maries, Ida.
Engineer, Chicago, Milwaukee and Puget Sound Railway

Frederic Edward Clements F 1908*† (Nebraska F 1901) Minneapolis, [Minn.
Professor of Botany, University of Minnesota

Lillian Cohen U 1900 Minneapolis, Minn.
Instructor in Chemistry, University of Minnesota

Nathan Cohen U 1906 New York City
Patent Attorney

Marjorie H Cole U 1904 Minneapolis, Minn.
(Mrs Clarence A Paulson)

Ruth Fitch Cole U 1902 Minneapolis, Minn.
Graduate Student, Columbia University

Wallace Cole U 1910 St. Paul, Minn.
Physician and Surgeon

Frank Henry Constant CF 1896 Minneapolis, Minn.
Professor of Structural Engineering, University of Minnesota

Robertson Cook U 1903 Brookings, S. D.
Professor of Engineering, South Dakota State College

Louis Joseph Cooke F 1898 Minneapolis, Minn.
Director of Gymnasium, University of Minnesota

Thomas Poe Cooper U 1908 Minneapolis, Minn.
Assistant in Agriculture, University of Minnesota

J Frank Corbett F 1909 Minneapolis, Minn.
City Bacteriologist

Martin Cornelius U 1906 Pittsburgh, Pa.
Engineer, Westinghouse Electric and Manufacturing Company

Ellen (Dobie) Cornish U 1898 Berkeley, Cal.
(Mrs Frank V Cornish)

Richard Ferguson Cox U 1908 Graceville, Minn.
Mechanical Engineer

Robert Craig U 1897 Minneapolis, Minn.
General Manager, Power Equipment Company

Wallace T Crawford U 1906 Faribault, Minn.
Crawford Garage

Charles Royal Cressy U 1908 South Bethlehem, Pa.
Instructor in Chemistry, Lehigh University

L R Critchfield U 1909 Hunter, N. D.
Physician and Surgeon

Neil Currie, Jr U 1908 Pittsfield, Mass.
Engineer, General Electric Company

Alvin Sayles Cutler U 1905 Minneapolis, Minn.
Assistant Professor of Railway Engineering, University of Minnesota

Christen Frederick Dahl U 1908 St. Hilaire, Minn.
Mining Engineer

Hans F M Dahl U 1898
(Deceased 1903)

Arnold Victor Dahlberg U 1905 Spreckels, Cal.
Sugar Chemist

Hans H Dalaker U 1902* Minneapolis, Minn.
Assistant Professor of Mathematics, University of Minnesota

Farrington Daniels G 1911 Cambridge, Mass.
Graduate Student and Assistant in Chemistry, Harvard University

Jake Danner U 1901 La Grange, Ill.
Telephone Engineer

Perley Alton Davis U 1898 Minneapolis, Minn.
Instructor in Chemistry, North High School

Reuben Noble Day U 1896 New Orleans, La.
Day Brothers Lumber Company

Frederick W Denton CF 1896 Houghton, Mich.
Mining Engineer

Ira Harris Derby F 1907 Minneapolis, Minn.
Assistant Professor of Chemistry, University of Minnesota

Samuel Bertolett Detwiler U 1906 Philadelphia, Pa.
Expert Forester

Gerhard Dietrichson U 1909 Madison, Wis.
Assistant in Chemistry, University of Wisconsin

Ellen Dobie U 1898 Berkeley, Cal.
(Mrs Frank V Cornish)

James Maurice Doran U 1907 Washington, D. C.
Assistant Chemist, U. S. Treasury Department

Joseph Dougherty U 1907
(Deceased 1909)

James Chase Dow U 1900 Butte, Mont.
Electrical Engineer

Hal Downey U 1903* Minneapolis, Minn.
Assistant Professor of Animal Biology, University of Minnesota

John Florin Downey CF 1896*† Minneapolis, Minn.
Dean of College of Science, Literature and Arts, University of Minnesota

Katherine Melvina Downey U 1910 Luverne, Minn.
Teacher of Science, High School

Frank Eugene Downing U 1904 Duluth, Minn.
Engineer, Oliver Iron Mining Company

Charles Ralph Drake U 1909 Minneapolis, Minn.
Demonstrator of Pathology, University of Minnesota

Neil Stanley Dungay U 1904 Northfield, Minn.
Acting Professor of Biology, Carleton College

Harriet E Dunton (Mrs N H Thompson) — U 1900 — Grandview, Wash.

Michael Higgins Ebert — U 1907 — Webster, S. D.
Principal High School

Henry Turner Eddy — CF 1896*† (Cornell A 1888) — Minneapolis, [Minn.
Dean of the Graduate School, Professor of Mathematics, University of Minnesota

Horace Taylor Eddy — G 1896 — Cincinnati, Ohio
Automobile Dealer

Ruth Elizabeth Eddy (Mrs Chas F Keyes) — F 1897 — Minneapolis, Minn.

Austin Southwick Edwards — G 1910 — Ithaca, N. Y.
Graduate Student, Cornell University

Halsten Olson Eggen — U 1899 — Santa Ana, Cal.
Instructor in Physics, High School

Sturla Einarsson — U 1905 (California F 1906) — Berkeley, Cal.
Instructor in Astronomy, University of California

Arthur Hugo Elftman — U 1896* — Tonopah, Nev.
Mining Engineer

Byron Todd Emerson — U 1903 — Minneapolis, Minn.
Teacher of Chemistry, Central High School

Henry Anton Erikson — U 1896* — Minneapolis, Minn.
Assistant Professor of Physics, University of Minnesota

Harvey Cole Estep — U 1908 — Chicago, Ill.
Associate Editor, Iron Trade Review, and The Foundry

Nevada Sutherland Evans — U 1910 — Minneapolis, Minn.
Seed Inspector, Northrup King and Company

Edwin Walter Ewy — U 1909 — Minneapolis, Minn.
Assistant in Botany, University of Minnesota

Mary Gilmore Fanning — U 1899 — St. Paul, Minn.
Teacher, Humboldt High School

Ellen (Pendergast) Farnum (Mrs A W Farnum) — U 1903 — St. Joseph, Mo.

Roy Yalding Ferner — G 1893 — Washington, D. C.
Assistant Physicist, U. S. Bureau of Standards

Edward Fidlar — F 1909 — Minneapolis, Minn.
Instructor in Pathology, University of Minnesota

Peter Field — G 1897* (Michigan F 1903) — Ann Arbor, Mich.
Assistant Professor of Mathematics, University of Michigan

Merlin Chamberlin Findlay — U 1903 — Parkville, Mo.
Professor of Biology, Park College

Bruce Fink — G 1899*† — Miami, Ohio
Professor of Botany, Miami University

Walter J Finke — U 1910 — Minneapolis, Minn.
Instructor in Electrical Engineering, University of Minnesota

Cyrus H Fiske — U 1910 — Boston, Mass.
Student, Harvard Medical School

John Joseph Flather F 1899*† Minneapolis, Minn.
Professor of Mechanical Engineering, University of Minnesota

Maud Rena Fletcher U 1903 Honolulu, H. I.
(Mrs Harold Lloyd Lyon)

August Foss U 1897
(Deceased 1898)

George Bell Frankforter CF 1896*† (Nebraska G 1898) Minneapolis, [Minn.
Dean of School of Chemistry, University of Minnesota

Francis Cowles Frary U 1905* Minneapolis, Minn.
Assistant Professor of Chemistry, University of Minnesota

Hobart Dickinson Frary U 1908 Washington, D. C.
U. S. Magnetic Survey, Yacht Carnegie

William Hardy Frazier F 1909 Minneapolis, Minn.
Instructor in Soils, College of Agriculture, University of Minnesota

Dana Walter Frear U 1909 Fort Collins, Col.
Assistant Professor of Agronomy, Colorado Agricultural College

Jenness B Frear U 1910 Minneapolis, Minn.
Instructor in Mechanics, College of Agriculture, University of Minnesota

Edward Monroe Freeman U 1898* St. Anthony Park, St. Paul, Minn.
Professor of Botany, College of Agriculture, University of Minnesota

Edwin Linton French U 1902 Sault Ste. Marie, Mich.
Engineer, Soo Works, Union Carbide Company

Ellen Clark Fullerton U 1900 Shanghai, China
Physician, St. Elizabeth's Hospital

Frederic William Gates G 1908 Minneapolis, Minn.
Instructor in Mathematics, North High School

Daniel Asher Gaumnitz U 1904* St. Anthony Park, St. Paul, Minn.
Assistant Professor in Husbandry, University of Minnesota

Florence Gaumnitz U 1910 Duluth, Minn.

Arthur Laurence Gholz U 1901 Birmingham, Ala.
Exploring Engineer, Southern Representative for E. J. Longyear Company

Gertrude Gibbs U 1900 Lindsay, Cal.
(Mrs Ferdinand Meier)

James Herbert Gill G 1896 (Illinois F 1906) Columbus, Ohio
Director, Columbus Trade School

Paul Maurice Glasoe G 1898* Northfield, Minn.
Professor of Chemistry, St. Olaf College

Verney Graling U 1899 Niagara Falls, N. Y.
Electrician, Niagara Falls Power Company

Henry Oswald Grangaard G 1908 Douglas, N. D.
Physician

R C Grant U 1909 Hollis, Alaska
Mining Engineer

Ulysses Sherman Grant F 1898*† (Northwestern CF 1906) Evanston, [Ill.
Professor of Geology, Northwestern University

Charles Frederick Grass U 1901 Fergus Falls, Minn.
Bookkeeper, Fergus Shirt Factory

Samuel Bowdlear Green F 1907*†
(Deceased 1910)

Lawrence Edmonds Griffin G 1896* Manila, P. I.
Dean College of Liberal Arts, University of the Philippines

Emmogene (Lilley) Griffiths U 1902
(Mrs David Griffiths) (Deceased 1909)

Benjamin Feland Groat F 1901* Massena, N. Y.
Consulting Engineer

Frank Fitch Grout U 1904* Minneapolis, Minn.
Assistant Professor of Mineralogy, University of Minnesota

Joseph Edward Guthrie G 1901 Ames, Ia.
Assistant Professor of Zoology, Iowa State College

Edward Jacob Gutsche U 1904 Detroit, Mich.
Chief Chemist, Detroit Copper and Brass Rolling Mills

Theophilus Levi Haecker F 1905 St. Anthony Park, St. Paul, Minn.
Professor of Dairy Husbandry, University of Minnesota

Christopher Webber Hall CF 1896*† Minneapolis, Minn.
Professor of Geology and Mineralogy, University of Minnesota

Arthur Stephen Hamilton F 1905 Minneapolis, Minn.
Clinical Instructor in Nervous and Mental Diseases, University of Minnesota

Monroe Hanauer U 1906 Salt Lake City, Utah
Engineer, Minneapolis Steel and Machinery Company

Everhart Percy Harding G 1901 Minneapolis, Minn.
Assistant Professor of Chemistry, University of Minnesota

Guy Pirnbrake Harrington U 1906 Washington, D. C.
Surveyor, General U. S. Land Office

Mary Kezie Hartzell U 1909 San Luis Obispo, Cal.
Dining Room Manager, California Polytechnic School

Henry David Haverson U 1907 Havre, Mont.
Civil Engineer

Arthur Edwin Haynes CF 1896*† Minneapolis, Minn.
Professor of Engineering Mathematics, University of Minnesota

Willet Martin Hays F 1902*† Washington, D. C.
Assistant Secretary of Agriculture, U. S. Department of Agriculture

George Douglas Head F 1904 Minneapolis, Minn.
Associate Professor of Medicine, University of Minnesota

Ernest Eugene Hemmingway F 1902 Seattle, Wash.
Physician

Carl Albert Herrick G 1903 Minneapolis, Minn.
Consulting Engineer

Charles Nathaniel Hewitt CF 1896†
(Deceased 1910)

Herbert Wade Hibbard CF 1896* (Cornell G 1891) Columbia, Mo.
Professor of Mechanical Engineering, University of Missouri

C Truman Hibbard U 1897 Minneapolis, Minn.
Secretary and Chief Engineer, Electric Machinery Company

Jessie (Stevens) Hickok U 1896 Minneapolis, Minn.
(Mrs Harvey M Hickok)

Blanche Higginbotham U 1904 Houston, Tex.
Teacher of Biology, High School

Charles Dutton Hilferty U 1896 Paterson, N. J.
Engineer, American Locomotive Works

Hibbert Winslow Hill F 1905* Minneapolis, Minn.
Assistant Professor of Bacteriology, University of Minnesota

Catherine Hillesheim U 1902 Reedsburg, Wis.
(Mrs H B Quimby)

Clara Hillesheim U 1902 Sleepy Eye, Minn.

Charles H Hinton F 1898
(Deceased 1907)

William Ricketson Hoag CF 1896*† (Cornell A 1887) Minneapolis,
Professor of Civil Engineering, University of Minnesota [Minn.

Jay Clark Holland U 1904 Wenatchee, Wash.
Chief Engineer, Wenatchee Valley Orchards Company

Alfred Hoff U 1910 St. Paul, Minn.
Assistant City and County Physician

Edward Willet Dorland Holway F 1905* Minneapolis, Minn.
Assistant Professor of Botany, University of Minnesota

Daisy S Hone G 1903 St. Cloud, Minn.
Supervisor, Home Economics, Public Schools

Lewis K Houlton U 1904 Douglas, Ariz.
Mining Engineer

Guy Joseph Houts U 1901 Chicago, Ill.
Telephone Engineer, Western Electric Company

Olaf Hovda U 1904 Minneapolis, Minn.
Instructor in Physics, University of Minnesota

John Howatt U 1904 Chicago, Ill.
Electrical and Mechanical Engineer, U. S. Government

N L Huff G 1906 Minneapolis, Minn.
Assistant Professor of Botany, University of Minnesota

John Adolph Hummel G 1902 Minneapolis, Minn.
New England Mutual Life Insurance Company

William Hammett Hunter F 1910 Minneapolis, Minn.
Instructor in Chemistry, University of Minnesota

Milton Byron Huntoon U 1899 Detroit, Mich.
Engineer, Michigan State Telephone Company

Frederick R Huxley U 1898 Faribault, Minn.
Physician and Surgeon

Simon Ingberg U 1909 Chicago, Ill.
Structural Engineer, James Stuart and Company

Roy Rowell Ireland U 1901 Chicago, Ill.
Telephone Engineer, Western Electric Company

Charles Freeman Jackson U 1907 Sonora, Mexico
Engineer and Geologist, Santa Rosa Mining Company

Earle Daniel Jackson U 1905 St. Paul, Minn.
Consulting Engineer

Emily Florence Janney U 1904 Medford, Ore.
Teacher, High School

Agnes Jaquess U 1907 Albert Lea, Minn.
Science Teacher, High School

Albert Ernest Jenks A 1910 Minneapolis, Minn.
Professor of Anthropology, University of Minnesota

Dagmar Christence Jensen U 1904 Los Angeles, Cal.
Teacher of Mathematics, Manual Arts High School

John Arthur Jensen U 1905 Minneapolis, Minn.
Civil Engineer, Water Works Department

Estelle Louise Jensen U 1909 Minneapolis, Minn.
Assisting Scholar at University of Minnesota

Jes Peter Frederick Jensen U 1903 Ithaca, N. Y.
Graduate Student, Cornell University

Carter Coleman Jett F 1902 Midland, Pa.
Draftsman, Pittsburgh Crucible Steel Company

Anna Josephine Johnson U 1908 Gaylord, Minn.
Teacher, High School

Arthur Monrad Johnson U 1904 Colfax, Wash.
Deputy County Treasurer

A Walford Johnson G 1909 Minneapolis, Minn.

Charles Eugene Johnson U 1906 Minneapolis, Minn.
Instructor in Animal Biology, University of Minnesota

Edward Carl Johnson U 1906 Washington, D. C.
Pathologist, Cereal Diseases, U. S. Department of Agriculture

Frank Edward Johnson U 1900 (Washington CF 1907) Seattle, Wash.
Instructor in Electrical Engineering, University of Washington

Ruth Johnson U 1908 Birmingham, Ala.
Teacher

Iver F Johnsrud U 1903 St. Cloud, Minn.
Professor of Physics and Geometry, State Normal School

John Black Johnston F 1907*† Minneapolis, Minn.
Professor of Comparative Neurology, University of Minnesota

Frederick Scheetz Jones CF 1896*† New Haven, Conn.
Dean of Yale University

William Harrison Kavanaugh F 1902 Minneapolis, Minn.
Professor of Experimental Engineering, University of Minnesota

Frank H Keller U 1898 Omak, Wash.
Metallurgist

Earl Wallace Kelly U 1907 Duluth, Minn.
Engineer, City Water and Light Department

Charles Hanford Kendall G 1896 Manila, P. I.
Railroad Engineer, Bureau of Engineering

William Walker Kennedy U 1907 St. Paul, Minn.
Chief Chemist, Griggs Cooper and Company

Ben Hur Kepner U 1911 Port Colborne, Ont.
Chief Chemist, Maple Leaf Milling Company

Ruth (Eddy) Keyes U 1897 Minneapolis, Minn.
(Mrs Chas F Keyes)

Roy Stevenson King F 1904 Dayton, Ohio
General Superintendent, Hall-Cronan Company

William Leonard Kinsell U 1900 East Pittsburgh, Pa.
Superintendent Production Department, Westinghouse Machine Company

Frank J Kircher U 1909 Minneapolis, Minn.
Instructor in Mechanical Engineering, University of Minnesota

William Herman Kirchner CF 1896 Minneapolis, Minn.
Professor of Drawing and Descriptive Geometry, University of Minnesota

Ingram Gerhard Kjosness U 1903 Spokane, Wash.
Manager, Madison Lumber and Mill Company

Bertram Glover Knight U 1898 Pleasantville, N. Y.
Artist

Annabel (Beach) Knight U 1898 Pleasantville, N. Y.
(Mrs Bertram G Knight)

Alois Francis Kovařík U 1904* Minneapolis, Minn.
Instructor in Physics, University of Minnesota

William Frederick Kunze U 1897 Minneapolis, Minn.
Secretary, Smith System Heating Company

Ellen Adelia Lamoreaux U 1901 Miles City, Wash.
(Mrs J Archie Burger)

Maximillian Nandor Lando U 1902 Chicago, Ill.
Chemist, Lindsay Light Company

James Sherburne Lang U 1896 Boston, Mass.
Superintendent of Power Plant, Boston Terminal Company

Martin L Larsen U 1909 South St. Paul, Minn.
Physician

Homer Barker Latimer U 1907 University Place, Neb.
Professor of Zoology, Nebraska Wesleyan University

Francis P Leavenworth CF 1896*† Minneapolis, Minn.
Professor of Astronomy, University of Minnesota

Clara K Leavitt G 1900 Minneapolis, Minn.
Teacher, Central High School

Engbert A Lee U 1897 Perth Amboy, N. J.
Superintendent, American Smelting and Refining Company

Thomas George Lee F 1896*† Minneapolis, Minn.
Professor of Anatomy, University of Minnesota

Bessie Geraldine Leeds U 1905 Orono, Me.
(Mrs Gordon Edwin Tower)

Harry Alexander Leonhauser F 1896 Montclair, N. J.
Major, United States Army

Edward Harold LeTourneau U 1905 Portland, Ore.
Superintendent, Railway Light and Power Company

Charles L Lewis, Jr U 1910 Shell Lake, Wis.
Manager, The Badger Cranberry Co.

Margo Lee Lewis U 1908 Seoul, Korea
Principal, Woman's Academy

Emmogene Lilley U 1902
(Mrs David Griffiths) (Deceased 1909)

Arvid C Lindberg G 1908 Summit, S. D.
Physician

Charles Gustav Lindelef U 1909 Yellowstone Park, Wyo.
Electrical Engineering

Benjamin W Loye U 1906 Detroit, Mich.
Engineer, American Blower Company

Harold Lloyd Lyon U 1900* Honolulu, H. I.
Botanist, Experiment Station, Hawaiian Sugar Planters' Association

Maud (Fletcher) Lyon U 1903 Honolulu, H. I.
(Mrs Harold Lloyd Lyon)

Kate MacDermid U 1897 Minneapolis, Minn.
Teacher of Chemistry, South High School

Daniel Trembly MacDougal CF 1896*† Tucson, Ariz.
Director, Botanical Research, Desert Laboratory, Carnegie Institution

Russell Smith McBride U 1908 Washington, D. C.
Assistant Chemist, Bureau of Standards

Edward Prosper McCarty F 1900 Minneapolis, Minn.
Professor of Mining, University of Minnesota

Orianna McDaniell G 1911 Minneapolis, Minn.
Physician, State Board of Health

William McDonald G 1907 Pretoria, South Africa
Editor, Government of Transvaal Agricultural Journal

Louis Williams McKeehan U 1908 Minneapolis, Minn.
Instructor in Physics, University of Minnesota

Conway McMillan CF 1896*† Philadelphia, Pa.
Agency Director, Economic Life Insurance Company

Franklin R McMillan U 1905 Minneapolis, Minn.
Instructor in Drawing, University of Minnesota

Carl Edward Magnusson U 1896* (Washington CF 1907) Seattle,
Professor of Electrical Engineering, University of Washington [Wash.

Gustav Alfred Magnusson G 1908 Minneapolis, Minn.
Demonstrator of Pathology, University of Minnesota

Clarence Maland G 1907 Minneapolis, Minn.
Physician

James Eugene Manchester F 1905* Moore, Mont.

Frank Melville Mason U 1894 Worthington, Minn.
Physician and Surgeon

John Van Sickle Martenis F 1907 Minneapolis, Minn.
Assistant Professor of Mechanical Engineering, University of Minnesota

Stanley R Maxeiner U 1909 Minneapolis, Minn.
Physician and Surgeon

Alfred David Mayo U 1896 Chicago, Ill.
Foreign Advertising Manager, Chicago Record Herald

James M Meany U 1907 Monett, Mo.
Engineer, J. J. Dennigan and Company

Gertrude (Gibbs) Meier U 1900 Lindsay, Cal.
(Mrs Ferdinand Meier)

R C Miller U 1909 Stanley, N. D.

Shirley Putnam Miller G 1904 Brookings, S. D.
Department of Zoology, South Dakota Agricultural College

James Burt Miner F 1907* (Illinois G 1903) Minneapolis, Minn.
Assistant Professor of Psychology, University of Minnesota

Alice Margaret Misz U 1907 Minneapolis, Minn.
Instructor in Botany, University of Minnesota

W A Moore U 1909 St. Paul, Minn.

Charles Statham Morris U 1902 Cara Grande, Ariz.
Manager Cara Grande Development

Thomas Carlyle Morris U 1908 Gatun, C. Z.
Draftsman, Engineering Department

Charles Leo Motl U 1910 Chicago, Ill.
Draftsman, Chicago, Milwaukee and St. Paul Railway

Robert Hyndman Mullin F 1905 Minneapolis, Minn.
Associate Professor of Pathology and Bacteriology, University of Minnesota

F E Murrish U 1909 Denver, Col.
Electrical Engineering

Henry Francis Nachtrieb CF 1896*† Minneapolis, Minn.
Professor of Animal Biology, University of Minnesota

John Wenceslaus Nekola U 1907 Chicago, Ill.
Draftsman, Western Electric Company

William Barrett Newhall U 1900 Raymondville, Tex.
Manager, Southern Fruit Lands Irrigation Company

Burt Leroy Newkirk G 1898* (California F 1903) Minneapolis,
Assistant Professor of Mathematics, University of Minnesota [Minn.

Edward Everett Nicholson F 1896 Minneapolis, Minn.
Assistant Professor of Chemistry, University of Minnesota

Bernard S Nickerson U 1899 Glencoe, Minn.
Physician and Surgeon

Wilhelm Nilson U 1902 Twin Valley, Minn.
Farmer

Lillian L Nye G 1910 Minneapolis, Minn.
Assistant in Chemistry, University of Minnesota

Peter Olaus Okkelberg U 1906 Ann Arbor, Mich.
Instructor in Zoology, University of Michigan

Joshua Edwin Emanuel Olander U 1904 St. Paul, Minn.
Physician

Mary Emma Olson U 1898 Evanston, Ill.
(Mrs H M Stanford)

Manford O Oppegard U 1910 New London, Minn.
Physician and Surgeon, Sunnyside Hospital

Frederick Arthur Otto U 1904 St. Paul, Minn.
Chief Engineer, St. Paul Gas Light Company

Robert Walter Otto U 1904 Minneapolis, Minn.
Engineer, Andrews Heating Company

Martin Oyen U 1909 Ellsworth, Wis.
Physician and Surgeon

Edward Parker U 1905 Mukden, Manchuria
Experiment Station of Chinese Government

Harleigh Parkhurst U 1900 Westminster Station, Vt.
President, Abenaque Machine Works

Arthur Leonard Parsons F 1904* Lidgerwood, N. D.

Jarvis Montgomery Partridge U 1906 Virginia, Minn.
Science Teacher, Technical High School

Edith Marion Patch U 1901 Orono, Me.
Entomologist, Maine Agricultural Experiment Station

Harriet (Wales) Patterson U 1899 Western Springs, Ill.
(Mrs E C Patterson)

Marjorie (Cole) Paulson U 1904 Minneapolis, Minn.
(Mrs Clarence A Paulson)

Harold Gould Payne U 1906 Chicago, Ill.
Electrical Engineer, D. C. and W. B. Jackson

Levi Beckley Pease U 1898 Minneapolis, Minn.
Professor of Metallurgy, University of Minnesota

William Argulus Peck U 1906 Washington, D. C.
Bureau of Statistics, U. S. Department of Agriculture

Ellen Martha Pendergast U 1903 St. Joseph, Mo.
(Mrs A W Farnum)

Edward M Pennock U 1905 South Chicago, Ill.
Chemist, By Products Coke Company

Andrew Peter Peterson U 1910 Chicago, Ill.
Western Electric Company

William Arnold Peterson U 1906 Bard, Cal.
Superintendent, U. S. Experimental Farm

G Leonard Pitchford G 1910 Minneapolis, Minn.
Assistant in Chemistry, University of Minnesota

Charles Delos Poore U 1905 (Iowa F 1906) Aberdeen, S. D.
Professor of Chemistry and Physics, Northern State Normal

Orson Birney Poore U 1908 Aurora, Minn.
Director of Manual Training, Hearling High School

Frederick Poppe G 1911 Minneapolis, Minn.
Assistant in Chemistry, University of Minnesota

Frederick Harold Poppe G 1907 Minneapolis, Minn.
Clinical Instructor in Surgery, University of Minnesota

Alden Archibald Potter U 1909 Washington, D. C.
Bureau of Plant Industry

Arthur Clarence Pratt U 1899 Helena, Mont.
Chief Electrical Engineer, Missouri River Power Company

Arthur Prendergast U 1903 St. Ignatius, Mont.
Civil Engineer, U. S. Reclaiming Service

John Henry Quense U 1901 Seattle, Wash.
Assistant District Engineer

Irene Radcliffe U 1906 Minneapolis, Minn.
(Mrs F N Edmonds)

Francis Ramaley G 1897* (Colorado CF 1905) Boulder, Col.
Professor of Biology, University of Colorado

Henry John Ramsey U 1903 Washington, D. C.
Assistant Pathologist, Experiment Station, Bureau of Agriculture

Louis Rask U 1903 Schenectady, N. Y.
Designing Engineer, General Electric Company

Robert Retzer F 1910 Chicago, Ill.
Professor of Anatomy, University of Chicago

Arthur Christian Ringsred U 1906 Duluth, Minn.
Hydraulic Engineer

Orison B Robbins U 1903 St. Paul, Minn.
Chief Draftsman, Great Northern Railway

Harold Eugene Robertson F 1908 Minneapolis, Minn.
Associate Professor of Pathology, University of Minnesota

Archer R Robison U 1909 Glenbeg, Wickes, Mont.
Engineer, Corbin Copper Company

Katherine Roney U 1896 Independence, Ia.
Teacher

Victor H Martini Roehrich G 1910 St. Paul, Minn.
City Chemist

Carl Otto Rosendahl U 1901* Minneapolis, Minn.
Professor of Botany, University of Minnesota

Frank B Rowley F 1911 Minneapolis, Minn.
Instructor in Descriptive Geometry, University of Minnesota

Arthur Gordon Ruggles F 1906* St. Anthony Park, St. Paul, Minn.
Assistant Professor of Entomology, University of Minnesota

Bert Russell U 1902 Washington, D. C.
Assistant Examiner of Patents, U. S. Patent Office

William Thomas Ryan F 1908 Minneapolis, Minn.
Assistant Professor of Electrical Engineering, University of Minnesota

Emil Peter Sandsten G 1898* (Wisconsin CF 1907) Madison, Wis.
Professor of Horticulture, University of Wisconsin

Roscoe Frank Sanford U 1905 San Luis, Argentina
Assistant, Southern Observatory, Carnegie Institute

Frederick William Sardeson G 1898*† Minneapolis, Minn.
Assistant Professor of Geology, University of Minnesota

Lee Arbor Scace G 1907 Centralia, Wash.
Chief Surgeon, Employes' Hospital

Frederick William Schlutz F 1911 Minneapolis, Minn.
Instructor in Pediatrics, University of Minnesota

Gottfried Schmidt U 1900 Sleepy Eye, Minn.
Physician and Surgeon

Herman F Schrader G 1903 Minneapolis, Minn.
Medical Student, University of Minnesota

John Henry Schumacher U 1903 Minneapolis, Minn.
Engineer

Frederick Hughes Scott F 1908 Minneapolis, Minn.
Assistant Professor of Physiology, University of Minnesota

Julius Parker Sedgwick F 1907 Minneapolis, Minn.
Instructor in Physiological Chemistry, University of Minnesota

Francis Clinton Shenehon F 1910* Minneapolis, Minn.
Dean of College of Engineering, University of Minnesota

George M Shepard U 1909 St. Paul, Minn.
Civil Engineer, U. S. Engineer Corps

George Defrees Shepardson CF 1896*† (Cornell G 1889) Minneapolis, Minn.
Professor of Electrical Engineering, University of Minnesota

Sylvanus Carl Shipley F 1908 Minneapolis, Minn.
Assistant Professor of Machine Construction, University of Minnesota

Charles Franklin Shoop F 1907 Minneapolis, Minn.
Assistant Professor of Experimental Engineering, University of Minnesota

Royal Raiss Shumway G 1904 Minneapolis, Minn.
Assistant Professor of Mathematics, University of Minnesota

Charles Frederick Sidener CF 1896 Minneapolis, Minn.
Professor of Chemistry, University of Minnesota

Charles Peter Sigerfoos F 1898*† (Ohio A 1911) Minneapolis, Minn.
Professor of Zoology, University of Minnesota

Herman L Slobin F 1911 Minneapolis, Minn.
Instructor in Mathematics, University of Minnesota

Byron Eton Smith U 1907 St. Paul, Minn.
Electrical Engineer

Ernest Vernon Smith G 1907 Adams, Minn.
Physician

Harry Ezra Smith CF 1896 (Cornell C 1886) College Station, Tex.
Assistant Professor of Engineering, Agricultural and Mechanical College

Paul Sherburne Smith U 1901 Red Wing, Minn.
Civil Engineer

Roy Howard Smith U 1906 St. Paul, Minn.

John Edward Smithson U 1907 Chicago, Ill.
Western Electric Company

Harry Snyder F 1902*† Minneapolis, Minn.
Chemist, Russell-Miller Milling Company

Jens Johan Solhaug U 1901 Portland, Ore.
Electrician

W H Souba U 1909 Hopkins, Minn.
Mechanical Engineer

Frederick J Souba U 1910 Minneapolis, Minn.
Resident Pathologist, City Hospital

Stephen Barber Soule U 1897 Minneapolis, Minn.
Civil Engineer

Leonard Boyd Sperry U 1905 Milwaukee, Wis.
Draftsman, International Harvester Company

Frank Wesley Springer G 1896* Minneapolis, Minn.
Professor of Electrical Engineering, University of Minnesota

Elmer Neill Stacy U 1907 Minneapolis, Minn.
Mechanical Engineer, Decarie Incinerator Company

Alma Louise Stake U 1908 Biwabik, Minn.
Teacher, High School

Elvin Charles Stakman U 1906 Minneapolis, Minn.
Instructor in Plant Pathology, University of Minnesota

Harold Melvin Stanford U 1898 Chicago, Ill.
Editorial Department, Publishing House

Mary (Olson) Stanford U 1898 Evanston, Ill.
(Mrs H M Stanford)

Raymond Edward Stanton U 1904 St. Paul, Minn.
Mechanical Engineer, Toltz Engineering Company

Jessie Eliza Stevens U 1896 Minneapolis, Minn.
(Mrs Harvey M Hickok)

Alexander Stewart U 1904 Minneapolis, Minn.
Lawyer, President Plum Valley Railway Company

John T Stewart F 1910 Minneapolis, Minn.

Ernest Stoppel U 1911 Rochester, Minn.

William Stussy U 1900 Hauserlake, Mont.
Electrical Engineer, Missouri River Power Company

Matthias Sundt U 1909 Minneapolis, Minn.
Physician and Surgeon

Charles Stewart Sutton U 1909 St. Cloud, Minn.
Physician and Surgeon

George Peter Svendson U 1908 Minneapolis, Minn.
Engineer

David Ferdinand Swenson U 1898 Minneapolis, Minn.
Assistant Professor of Philosophy, University of Minnesota

Carl A Taylor U 1910 Ishpeming, Mich.
Chemist, Pluto Powder Company

Harold George Taylor U 1909 Chicago Heights, Ill.
Tire Department, Railway Steel Spring Company

Joseph Auken Thaler U 1900* Bozeman, Mont.
Professor of Electrical Engineering, Montana State College

Edith Mighill Thomas U 1902
(Deceased 1903)

Harriet E (Dunton) Thompson U 1900 Grandview, Wash.
(Mrs N H Thompson)

Rosamond Thompson U 1901 Minneapolis, Minn.
(Mrs Charles A Bruce)

Roy Edwin Thompson U 1900 San Diego, Cal.
Vice President and General Manager, San Diego Telephone Co.

Josephine Elizabeth Tilden G 1896* Minneapolis, Minn.
Professor of Botany, University of Minnesota

L C Tomlinson G 1909 Golden, Col.
Instructor in Electrical Engineering, Colorado School of Mines

Ellen Torelle U 1902 Milwaukee, Wis.
Lecturer and Research Worker, Natural History Museum

Bessie (Leeds) Tower U 1905 Orono, Me.
(Mrs Gordon E Tower)

Charles Edward Tullar U 1901 Washington, D. C.
Assistant Examiner, U. S. Patent Office

Edward Leo Tuohy U 1902 Duluth, Minn.
Physician and Surgeon, State Board of Health

Carl Mugg Ungerman U 1906 Minneapolis, Minn.
Engineer, Electrical Machinery Company

Roy Albion Vickery G 1908 Washington, D. C.
Agent and Expert, Bureau of Entomology

Jay Carter Vincent U 1903 Minneapolis, Minn.
Assistant Engineer, Twin City Rapid Transit Company

Adolph W Wagner U 1898 Huron, S. D.
Manager, Huron Light and Power Company

Harriet Wales U 1899 Western Springs, Ill.
(Mrs E C Patterson)

Frank Bates Walker U 1897 St. Paul, Minn.
Resident Engineer, Great Northern Railway

George Hamilton Walker G 1908 Fairfax, Minn.
Physician and Surgeon

George Warren Walker U 1909 Minneapolis, Minn.
Assistant, College of Agriculture, University of Minnesota

George Thompson Walker U 1905 Minneapolis, Minn.
Chemist, The Van Tilburg Oil Company

Frederick Leonard Washburn F 1905*† Minneapolis, Minn.
Professor of Entomology, University of Minnesota

Orson Monroe Washburn U 1897 Coburg, Ore.
Cashier, State Bank

Frederick Walter Webber U 1897 Minneapolis, Minn.
Deputy Collector, U. S. Customs

Ervin L Weber U 1906 Seattle, Wash.
Engineer, Great Northern Railway

John Philip Wentling F 1909 Minneapolis, Minn.
Assistant Professor of Forestry, University of Minnesota

Asa Orrin Weese U 1909 Albuquerque, N. M.
Assistant Professor of Biology, University of New Mexico

Donald McDermid Wesbrook U 1910 Hibbing, Minn.
Mechanical Engineer, Oliver Iron Mining Company

Frank Fairchild Wesbrook F 1896*† Minneapolis, Minn.
Dean of College of Medicine and Surgery, University of Minnesota

Rodney Mott West U 1906 Minneapolis, Minn.
Instructor in Chemistry, College of Agriculture, University of Minnesota

Joseph Peter Weyrens G 1906 Taylor, N. D.
Physician and Surgeon

Herbert Merrill Wheeler U 1896 Chicago, Ill.
Assistant Chief Engineer, Chicago Railways Company

William Archie Wheeler U 1900 Mitchell, S. D.
Secretary and Manager, South Dakota Improved Seed Company

Solon Marx White F 1900* Minneapolis, Minn.
Associate Professor of Medicine, University of Minnesota

Eugene Edgerton Whiteley U 1903 Bisbee, Ariz.
Chief Engineer, Calumet and Arizona Manufacturing Company

H O Whittaker G 1911 Minneapolis, Minn.
Chemist, State Board of Health

Albert Davis Wilhoit G 1906 Minneapolis, Minn.
Chemist, Pillsbury Flour Mills Company

Fred Mortimer Williams U 1905 Chicago, Ill.
Telephone Engineer, Western Electric Company

Wilbur S Williams U 1909 Memphis, Tenn.
Engineer, Wabash Screen Door Company

Archie Dell Wilson U 1905 St. Anthony Park, Minn.
Superintendent of State Farmers' Institutes and Extension, University of Minnesota

Louis Blanchard Wilson F 1900* Rochester, Minn.
Director of Laboratories, St. Mary's Hospital

Newton Horace Winchell CF 1896*† Minneapolis, Minn.
Ex-Professor of Geology, University of Minnesota

Herbert Woodrow F 1910 Minneapolis, Minn.
Instructor in Psychology, University of Minnesota

Roydon Vincent Wright U 1898 New York City
Editor, American Engineering and Railroad Journal

Louis Yager U 1900 St. Paul, Minn.
Division Engineer, Northern Pacific Railway

Charles H Zander U 1909 Rochester, Minn.
Physician and Surgeon

Anthony Zeleny G 1896* Minneapolis, Minn.
Professor of Physics, University of Minnesota

Charles Zeleny U 1898* (Indiana F 1904; Illinois F 1909)
Associate Professor of Zoology, University of Illinois [Urbana, Ill.

Frank Zeleny U 1898 Aurora, Ill.
Assistant Superintendent of Shops, Chicago, Burlington and Quincy Railway

John Zeleny F 1896*† Minneapolis, Minn.
Professor of Physics, University of Minnesota

Ralph August Ziesemer U 1905 Bisbee, Ariz.
Smith and Ziesemer, Mining Engineers

Louis Peter Zimmerman U 1908 Seattle, Wash.
Pacific Coast Manager of Perton Publishing Company

NEBRASKA CHAPTER

University of Nebraska, Lincoln, Nebraska

Charter Dated June 24, 1897 Chapter Installed June 5, 1897

HISTORICAL SKETCH

The organization of the Nebraska Chapter in 1897 was due mainly to the efforts of Professors Fred W. Card and A. L. Candy, who had been active members of chapters elsewhere, Professor Card at Cornell University and Professor Candy at the University of Kansas. After conferring with a number of their colleagues at the University of Nebraska, a petition was presented to the General Council, asking for a charter. Official notice was received by Professor Card on June 1, 1897, that such a charter had been granted and the Chapter was accordingly organized on June 5, 1897, with thirteen charter members, all chosen from the faculty. Professor Card became the first president.

The largest number initiated in any one year was thirty-six, in 1898, the year following the organization of the Chapter; of this number twenty-five were taken from among the graduates of the university. The smallest number elected in any one year was nine in 1902, only two from the senior class being selected.

There have been held in all, since the organization of the Chapter and up to the end of the year 1909-10, seventy-three meetings, at forty of which papers and addresses were presented; the latter meetings were of three different types: those for the presentation of technical papers in which the research work of our own members was presented; meetings to which the public was invited, in which results of a more popular nature were set before them; and occasionally, especially at the mid-winter Commencement season, a similar program with a speaker invited from a sister Chapter.

Besides these meetings of the Chapter, regular and special, there have been held each year one or more functions of a social nature, either a gathering at the home of one of the members for the sake of better acquaintance with each other, or more frequently, especially in connection with the mid-winter address, or the initiation of new members, a banquet at one of the hotels, preceded by a social hour and followed by a program of after-dinner speeches.

G. D. S.

PUBLICATIONS

By-laws of the University of Nebraska Chapter of the Society of the Sigma Xi. 8 pp., n. p., n. d.

OFFICERS FOR 1911–12

President.....Edwin Mead Wilcox
Vice-President.....Rosa Bouton
Recording Secretary.....Lawrence Bell Pilsbury
Corresponding Secretary.....Albert Luther Candy
Treasurer.....Louis Bryant Tuckerman
Councilor.....Ellery Williams Davis

MEMBERSHIP ROLL

Louise Marie Allen G 1907 Seattle, Wash.
State Seed Analyst of Washington

Wynfred Emory Allen G 1905 Venice, Cal.
Teacher, High School

Billings Grinnell Almy G 1898 Ord, Neb.
Stockman

John Edwin Almy F 1902* Lincoln, Neb.
Professor of Physics, University of Nebraska

Frederick James Alway F 1907 Lincoln, Neb.
Head Professor of Agricultural Chemistry, University of Nebraska

Charles Edward Anderson G 1898 Craig, Neb.
Electrical Engineer

William Nance Anderson G 1908 Omaha, Neb.
Physician

Edward John Angle G 1898 Lincoln, Neb.
Physician

Samuel Avery F 1897*† Lincoln, Neb.
Chancellor, University of Nebraska

LeRoy Nelson Baker G 1907 Cheyenne, Wyo.
Electrician

Carrie Adeline Barbour G 1901 Lincoln, Neb.
Assistant Curator of Museum, University of Nebraska

Eleanor Barbour U 1910 Agate, Neb.
(Mrs Harold James Cook)

Erwin Hinkley Barbour CF 1897*† Lincoln, Neb.
State Geologist and Professor of Geology, University of Nebraska

Oscar Leonard Barnebey G 1909 Madison, Wis.
Instructor in Chemistry, University of Wisconsin

Franklin Davis Barker F 1907* Lincoln, Neb.
Associate Professor of Zoology, University of Nebraska

Henry Walter Barre G 1910 Clemson, S. C.
Botanist, Experiment Station, Clemson College

Carlos Glazier Bates G 1907 Denver, Col.
Chief of Silvics, U. S. Forest Service

Frederick John Bates G 1902 Washington, D. C.
Physicist, U. S. Bureau of Standards

Hal Truman Beans G 1900 New York City
Assistant Professor of Chemistry, Columbia University

Rolla Kent Beattie G 1898 Pullman, Wash.
Professor of Botany, Washington State College

Carl Ensley Bedell G 1900 Glenova, W. Va.
Superintendent of Electric Department, Wheeling Steel and Iron Company

Albert Thomas Bell G 1898 Baton Rouge, La.
Professor of Botany, Louisiana State University

Harris Miller Benedict G 1898* Cincinnati, Ohio
Professor of Botany, University of Cincinnati

Charles Abel Bennett U 1911 Omaha, Neb.
With Omaha Electric Light and Power Company

Claudius Edmund Bennett U 1909 (Illinois G 1910) Urbana, Ill.
Research Fellow in Engineering, University of Illinois

Nels August Bengtson G 1907 Lincoln, Neb.
Assistant Professor of Geography, University of Nebraska

Carl Athearn Bessey G 1899 Chicago, Ill.
With H. M. Byllesby and Company

Charles Edwin Bessey CF 1897*† Lincoln, Neb.
Head Dean and Professor of Botany, University of Nebraska

Edward Athearn Bessey G 1898
(Deceased 1910)

Ernst Athearn Bessey G 1908*† East Lansing, Mich.
Professor of Botany, Michigan Agricultural College

Alice Miranda Birge U 1911 North Platte, Neb.

Thaddeus Lincoln Bolton F 1900* Tempe, Ariz.
Professor of Psychology, Arizona State Normal

Emil August Boostrom G 1910 Stromsburg, Neb.
Superintendent of Schools

George Borrowman F 1908 Lincoln, Neb.
Adjunct Professor of Chemistry, University of Nebraska

Rosa Bouton F 1897 Lincoln, Neb.
Professor of Home Economics, University of Nebraska

John Shaw Boyce U 1911 Lincoln, Neb.

Henry Blakeslee Boyden U 1909 Chicago, Ill.
Student, Rush Medical College

William Charles Brenke F 1908* Lincoln, Neb.
Associate Professor of Mathematics, University of Nebraska

Paul Lemon Brockway G 1905 Wichita, Kan.
Assistant City Engineer

Morgan Brooks F 1899*† (Illinois CF 1903) Urbana, Ill.
Professor of Electrical Engineering, University of Illinois

William Hand Browne, Jr F 1897*† Baltimore, Md.
Professor of English Literature, Johns Hopkins University

Frank G Bruner G 1903* Chicago, Ill.
Assistant Director, Department of Educational Research, Board of Education

Lawrence Bruner CF 1897*† Lincoln, Neb.
Head Professor of Entomology, University of Nebraska

Edward Martin Buol U 1909 Seattle, Wash.
Engineer

Edgar Albert Burnett F 1902*† Lincoln, Neb.
Dean of the College of Agriculture, University of Nebraska

Esther Pearl (Hensel) Burnett G 1905 Ames, Ia.
(Mrs L C Burnett)

William Robert Calvert A 1911 Washington, D. C.
U. S. Geological Survey

Albert Luther Candy CF 1897*† (Kansas A 1894) Lincoln, Neb.
Professor of Pure Mathematics, University of Nebraska

Earl Vanhise Capps G 1899 Blair, Neb.
With Electric Light Company

Fred Wallace Card CF 1897 (Cornell G 1893) Sylvania, Pa.
Farm Management

William Bell Cartmel G 1902* Montreal, Canada
Engineer, Northern Electric Company

Cecil Floyd Charlton G 1908 Chicago, Ill.
Student, Rush Medical College

Carl Fred Chase U 1910 Manhattan, Kan.
Assistant in Farm Mechanics, Agricultural College

Leon Wilson Chase G 1904 Lincoln, Neb.
Professor of Agricultural Engineering, University of Nebraska

George Richard Chatburn F 1897* Lincoln, Neb.
Head Professor of Applied Mechanics, University of Nebraska

Vivian Leroy Chrisler G 1908 Chapel Hill, N. C.
Instructor, University of North Carolina

Edith (Schwartz) Clements G 1903 Minneapolis, Minn.
(Mrs Frederick Edward Clements)

Frederic Edward Clements F 1901*† (Minnesota F 1908) Minneapolis, [Minn.
Professor of Botany, University of Minnesota

Zeno E Crook G 1899 Denver, Col.
Salesman

George Evert Condra G 1898* Lincoln, Neb.
Professor of Geography and Geology, University of Nebraska

Samuel Richard Cook G 1898* (Case CF 1904) San Jose, Cal.

George Herbert Coons G 1911 East Lansing, Mich.
Research Assistant, Michigan Agricultural College

Benton Dales G 1897* Lincoln, Neb.
Professor of Chemistry, University of Nebraska

Jay Brownlee Davidson G 1904 Ames, Ia.
Professor of Agricultural Engineering, Iowa State College

Edwin Greene Davis U 1909 Baltimore, Md.
Student, Johns Hopkins Medical College

Byron Bennett Davis G 1898 Omaha, Neb.
Physician

Ellery Williams Davis CF 1897*† Lincoln, Neb.
Dean of College of Arts and Science, University of Nebraska

Thomas Brandenberg Davis G 1906 Little Rock, Ark.
Arkansas Farms Company

Warren French Day G 1906 Boise, Ida.
Engineer, J. G. White Company

Bruno Erdman Debler G 1907 Chicago, Ill.
Engineer, Sam Brown Jr. and Son

Frank Earl Denny G 1906 Omaha, Neb.
In business

Harry Wilfred Doubrava G 1897 New York City
Sales Office, Wagner Electric Company

Jay Clinton Elder G 1907 Berkeley, Cal.
Fellow in Physiology, University of California

Gustavus Waldemar Elmen G 1904 New York City
Electrical Engineer, Western Electric Company

Clarence Emerson G 1909 Chicago, Ill.
Student, Rush Medical College

Rollins Adams Emerson G 1897*† Lincoln, Neb.
Head Professor of Horticulture, University of Nebraska

Carl Christian Engberg G 1898* Lincoln, Neb.
Professor of Applied Mathematics, University of Nebraska

William Harry England G 1904 Washington, D. C.
Bureau of Corporations

Iva Belle Ernsberger G 1911 Greenville, Ill.
Professor of Mathematics, Greenville College

Flora Grace Ernst G 1909 Omaha, Neb.
Teacher of Botany, Brownell Hall

Herbert Silas Evans G 1900 Boulder, Col.
Professor of Electrical Engineering, University of Colorado

George Lorenzo Fawcett G 1905 Mayaguez, P. R.
Plant Pathologist, Porto Rico Experiment Station

Olin Jerome Ferguson G 1903 (Union F 1905) Schenectady, N. Y.
Associate Professor of Electrical Engineering, Union College

Ethel Content Field G 1908 Washington, D. C.
Plant Pathologist, U. S. Department of Agriculture

Ellery Knapton Files G 1910 Chicago, Ill.
Head Chemist, Fox River Butter Company

Cassius Asa Fisher G 1898 Denver, Col.
Geologist and Engineer

Harry Cowles Fleming U 1909 Kalamazoo, Mich.
County Road Engineer

Paul Darwin Foote G 1911

Charles Fordyce G 1900 Lincoln, Neb.
Dean, Teachers College, University of Nebraska

William Olivet Forman G 1911 Havelock, Neb.
Mechanical Engineer in Charge of Burlington Drafting Room

John Jacob Fossler G 1902 Millard, Neb.
Physician

Mary Louise Fossler G 1898 Lincoln, Neb.
Adjunct Professor of Chemistry, University of Nebraska

Clarence Jackson Frankforter F 1910 Lincoln, Neb.
Instructor in Chemistry, University of Nebraska

George Bell Frankforter G 1898*† (Minnesota F 1896) Minneapolis, [Minn.
Dean, School of Chemistry, University of Minnesota

Elton Fulmer G 1898* Pullman, Wash.
Professor of Chemistry, State College of Washington

Mariel Clapham Gere G 1899 Lincoln, Neb.
Teacher of Chemistry, High School

Jesse Berthold Gibbs G 1905 Pittsburgh, Pa.
Designer, with Westinghouse Electric and Manufacturing Company

Melvin Randolph Gilmore G 1911 Lincoln, Neb.
Curator of Museum, State Historical Society

Charles Henry Gordon F 1902*† (Washington CF 1907) Knoxville, [Tenn.
Professor of Geology, University of Tennessee

Charles Newton Gould G 1900*† Norman, Okla.
Professor of Geology, University of Oklahoma

Harry Webster Graybill G 1900 Washington, D. C.
Assistant in Zoology, U. S. Department of Agriculture

Harold Hubert Greenamyre U 1910 Flagstaff, Ariz.
Forest Service, U. S. Department of Agriculture

Charles Clifton Griggs G 1898 Eureka, Utah
General Superintendent, U. S. Consolidated Mining Company

August Ernest Guenther F 1906† Lincoln, Neb.
Professor of Physiology, University of Nebraska

Robert Elton Guthrie G 1908 Fort Barry, Cal.
First Lieutenant, Coast Artillery

Charles Frederick Hagenow G 1900 Chicago, Ill.
Instructor in Physics, Armour Institute of Technology

Maurice Crowther Hall G 1906 Washington, D. C.
Assistant Zoologist, Bureau of Animal Industry

William Garfield Hamilton G 1906 Omaha, Neb.

Charles Marks Hardin U 1910 East Pittsburgh, Pa.
Westinghouse Machine Company

Walter David Harris G 1906 Syracuse, N. Y.
Assistant Professor of Physics, Syracuse University

George Thomas Hargitt G 1903* (Syracuse CF 1906) Evanston, Ill.
Instructor in Zoology, Northwestern University

Arthur Strong Harrington G 1908 Albany, Ore.
Manager, Business Department, Oregon Power Company

Leonard Lee Harter A 1911 Washington, D. C.
Bureau of Plant Industry, Department of Agriculture

Walter Lewers Hartzell G 1905 Baltimore, Md.
With Westinghouse Electric Company

David West Hawksworth G 1897 Montreal, Canada
Assistant to Vice President, American Car and Foundry Company

Frederick DeForest Heald F 1906*† Austin, Tex.
Head, Department of Botany, University of Texas

Walter Heald G 1906 Washington, D. C.
Physics Office, U. S. Department Agriculture

George Grant Hedgcock G 1901*† Washington, D. C.
Plant Pathologist in Forestry, U. S. Department of Agriculture

John Logan Hershey G 1906 Denver, Col.
Civil Engineer

Frederick Edward Hess G 1903 Dallas, Tex.
Hess and Skinner, Agents, Missouri Valley Bridge and Iron Company

Paul Llewellyn Hibbard G 1898 Chicago, Ill.
Analytical Chemist

Jay Higgins G 1908 Monte Vista, Col.
Assistant, U. S. Forestry Service

Albert Ross Hill F 1897*† (Missouri CF 1905) Columbia, Mo.
President, University of Missouri

Bruce Vickroy Hill G 1899 Chicago, Ill.
Physicist, Chicago Telephone Company

Martin Edward Hiltner G 1898 Trojan, S. D.
General Manager, Reliance Gold Mine

Robert Silver Hiltner F 1898* Denver, Col.
Chief, Food and Drug Inspection Laboratory, U. S. Department of Agriculture

David Clark Hilton G 1901 Lincoln, Neb.
Physician and Instructor in Anatomy, University of Nebraska

Harry Winfield Hinman U 1909 Clovis, N. M.
Apprentice Instructor, Atchison, Topeka and Santa Fe Railway

Albert Leroy Hoagland G 1900 Lincoln, Neb.
Engineer, Chicago, Burlington and Quincy Railway

Fred Wenzl Hofman U 1910 Peru, Neb.
Superintendent, Peru Fruit Farms

Harry Levi Hollingworth G 1906 New York City
Instructor in Psychology, Columbia University

Bertha Anita Hollister G 1908 Portland, Ore.
Expert Seed Tester, Portland Seed Company

William Frank Holman G 1906 Minneapolis, Minn.
Instructor in Physics, University of Minnesota

Erwin Hopt U 1909 Lincoln, Neb.
Assistant Professor of Agronomy, University of Nebraska

Frank Walter Hornung U 1911 Wilkinsburg, Pa.
Electric Manufacturing Company

Clarence John Humphrey G 1906 (Cornell F 1907) Madison, Wis.
Pathologist, Forest Products Laboratory

Walter David Hunter F 1897*† Washington, D. C.
Investigator, Bureau of Entomology, U. S. Department of Agriculture

Della Elizabeth Ingram G 1910 Washington, D. C.
Pathologist, U. S. Department of Agriculture

Robert Melyne Isham G 1910 Toronto, Canada
Assistant in Chemistry, Toronto University

William Gibson Jenkins G 1907 McCook, Neb.
Civil Engineer

Clarence Anthony Johnson G 1906 Lawrence, Kan.
Assistant Professor of Engineering, University of Kansas

Earle George Johnson G 1911 Fremont, Neb.

Valerius Horatio Kendall G 1907 Niles, Mich.
Secretary and Sales Manager, Kawneer Manufacturing Company

Frederick Courtland Kenyon G 1898† Washington, D. C.

Alvin Keyser G 1904 Fort Collins, Col.
Professor of Agronomy, Colorado State Agricultural College

Theo Alexander Kiesselbach G 1908 Lincoln, Neb.
Assistant in Agronomy, University of Nebraska

Wilbur Clinton Knight G 1898†
(Deceased 1903)

Fred Kuhlmann G 1900 Faribault, Minn.
Director of Research, State School for Feebleminded

George Newton Lamb G 1910 Washington, D. C.
Forest Service, U. S. Department of Agriculture

George Roger La Rue G 1908 (Illinois F 1909) Ann Arbor, Mich.
Instructor in Zoology, University of Michigan

Joseph William Laughlin U 1911 Lincoln, Neb.
Medical Student

Derick Norman Lehmer G 1899* (California F 1903) Berkeley, Cal.
Associate Professor of Mathematics, University of California

Albert Buell Lewis G 1900 Chicago, Ill.
Curator, Field Columbian Museum

Charles Lieber G 1910 Omaha, Neb.
Physician

Ralph Stayner Lillie F 1903* Philadelphia, Pa.
Instructor in Physiology and Zoology, University of Pennsylvania

Antone Lyman Lott G 1907 Omaha, Neb.
Superintendent, Omaha and Council Bluffs Railway

George Andrew Loveland F 1898* Lincoln, Neb.
Associate Professor of Meteorology, University of Nebraska

Rufus Ashley Lyman G 1899 Lincoln, Neb.
Director of School of Pharmacy, University of Nebraska

Thomas Lyttleton Lyon CF 1897*† (Cornell F 1907) Ithaca, N. Y.
Professor of Soil Technology, Cornell University

Conway MacMillan G 1898* Minneapolis, Minn.
In Business

Ruth Marshall G 1907 Rockford, Ill.
Professor of Biology, Rockford College

Wade Randall Martin U 1911 Lincoln, Neb.
Nurseryman

Alfred James McClatchie G 1898
(Deceased 1906)

Harold Edgar McComb G 1909 Lincoln, Neb.
Instructor in Physics, University of Nebraska

Edgar Matthias Medlar G 1911 Boston, Mass.
Student, Harvard Medical College

Haven Metcalf G 1902*† (Brown A 1906) Washington, D. C.
Pathologist, Bureau of Plant Industry, U. S. Department of Agriculture

Clark Edwin Mickey G 1908 Lincoln, Neb.
Adjunct Professor of Mechanics, University of Nebraska

George F Miles G 1903 Washington, D. C.
Assistant, Pathologist, U. S. Department of Agriculture

Alvin Augustus Miller G 1898 Seattle, Wash.
Sales Engineer, Westinghouse Electric Company

Frank Garner Miller F 1906*† (Washington F 1908) Seattle, Wash.
Professor of Forestry, University of Washington

John Mills G 1904 New York City
Engineer, American Telephone and Telegraph Company

Edward Gerrard Montgomery G 1906 Ithaca, N. Y.
Professor of Field Crops, Cornell University

Claude William Mitchell U 1910 Lincoln, Neb.
Fellow in Zoology, University of Nebraska

Burton Evans Moore F 1897* Lincoln, Neb.
Professor of Physics, University of Nebraska

William Henry Harrison Moore G 1900 Martell, Neb.
Cashier, Martell State Bank

Louis Trenchard More F 1897*† Cincinnati, Ohio
Dean, College of Liberal Arts, Professor of Physics, University of Cincinnati

Robert Edouard Moritz F 1899*† (Washington CF 1906) Seattle,
Professor of Mathematics, University of Washington [Wash.

George Hart Morse F 1898 Lincoln, Neb.
Professor of Electrical Engineering, University of Nebraska

Henry Hudson Nicholson CF 1897*† Lincoln, Neb.
Consulting Chemical Engineer

Hiland Bachellor Noyes G 1898 Omaha, Neb.
Contractor

Robert Edgar Noyes G 1904 Brooklyn, N. Y.
Instructor in Electrical Engineering, Pratt Institute

Patrick Joseph O'Gara G 1902 Medford, Ore.
Expert Plant Pathologist, U. S. Department of Agriculture

Lewis Bertie Olmstead G 1911 Washington, D. C.
Assistant Physicist, National Bureau of Standards

Robert Bowie Owens CF 1897* Philadelphia, Pa.
Secretary, Franklin Institute

Howard Coon Parmelee G 1897 Denver, Col.
Western Editor, Metallurgical and Chemical Engineering

Arthur Sperry Pearse G 1904 St. Louis, Mo.
Associate Professor of Biology, St. Louis University

Gustaf Adolph Pearson G 1907 Flagstaff, Ariz.
Director, U. S. Forestry Service

Edwin Rudolph Pelster U 1909 South Omaha, Neb.

Leon J Pepperberg A 1911 San Francisco, Cal.
Mining Geologist, Southern Pacific Company

Roy Pepperberg G 1908 Lincoln, Neb.
In Business, J. Pepperberg and Son

Albert Theodore Peters F 1900† Springfield, Ill.
Director, State Biological Laboratory

Alfred Olaf Peterson G 1900 Omaha, Neb.
Physician, Lecturer in Medicine, University of Nebraska College of Medicine

Frank Jay Phillips
(Deceased 1911)

William Dwight Pierce G 1904 Dallas, Tex.
Field Agent, Bureau of Entomology, U. S. Department of Agriculture

Walter Bowers Pillsbury G 1898*† (Michigan CF 1903) Ann Arbor, [Mich.
Professor of Psychology, University of Michigan

Lawrence Bell Pilsbury F 1906 Asylum, Neb.
Adjunct Professor of Pathology, University of Nebraska

Francis John Pipal G 1911 Lafayette, Ind.
Assistant Botanist, Purdue University

Raymond John Pool G 1907* Lincoln, Neb.
Associate Professor of Botany, University of Nebraska

Venus Worrell Pool G 1908 Washington, D. C.
Scientific Assistant, Bureau of Plant Industry

Roscoe Pound G 1898*† Cambridge, Mass.
Professor of Law, Harvard University

Joseph Horace Powers F 1906 Lincoln, Neb.
Professor of Zoology, University of Nebraska

Melvin Price F 1905 Lafayette, Ind.
Farmer

Fred J Pritchard G 1904 Washington, D. C.
Physiologist, Bureau of Plant Industry

Karl Chandler Randall G 1897 East Pittsburgh, Pa.
Engineer, Westinghouse Electrical and Manufacturing Company

Brayton Howard Ransom G 1900† Washington, D. C.
Chief Zoologist, Bureau of Animal Industry, U. S. Department of Agriculture

Edward J Rendtorff G 1899* Lake Forest, Ill.
Professor of Physics and Chemistry, Lake Forest Military Academy

Charles Russ Richards CF 1897* (Illinois F 1911) Urbana, Ill.
Professor of Engineering, University of Illinois

John William Roberts G 1909 Washington, D. C.
Pathologist, U. S. Department of Agriculture

James Madison Rohrbaugh G 1898 St. Augustine, Fla.
Assistant Engineer, Florida East Coast Railway

Fay Harry Rosencrants U 1911 Fort Collins, Col.
Instructor in Farm Mechanics, Agricultural College

Jesse Perry Rowe A 1903* Missoula, Mont.
Professor of Geology, University of Montana

Clarence Rubendall G 1906 Omaha, Neb.
Physician

Per Axel Rydberg G 1898*† New York City
Curator, New York Botanical Gardens

Arthur William Sampson G 1907 Washington, D. C.
Assistant, Bureau of Plant Industry, U. S. Department of Agriculture

De Alton Saunders G 1899*† Washington, D. C.
Botanist, U. S. Department of Agriculture

Ray James Scarborough U 1909 University Place, Neb.
Assistant Professor of Geography, Nebraska Wesleyan University

Nella Gabrielle Schlesinger G 1905 Lincoln, Neb.
(Mrs Kohn)

William Leroy Schoonover G 1906 Chicago, Ill.
Western Electric Company

Eck Frank Schramm G 1908 Lincoln, Neb.
Instructor in Geology, University of Nebraska

Benjamin Lee Seawell G 1904 Marshall, Mo.
Professor of Biology, Missouri Valley College

Herbert Almon Senter G 1899 Omaha, Neb.
Head of Chemistry Department, Omaha High School

Adolph Shane G 1901 Ames, Ia.
Associate Professor of Electrical Engineering, Iowa State College

Homer LeRoy Shantz G 1905* (Missouri F 1906) Washington, D. C.
Plant Physiologist, U. S. Department of Agriculture

Ora James Shaw G 1908 Lincoln, Neb.
Secretary, Lincoln Traction Company

Roscoe Hart Shaw F 1906 (Missouri F 1908) Washington, D. C.
Dairy Chemist, U. S. Department of Agriculture

Cornelius Lott Shear G 1897* Washington, D. C.
Plant Pathologist, U. S. Department of Agriculture

Claude Kedzie Shedd U 1909 Ames, Ia.
Assistant Professor of Engineering, Iowa State College

John Lewis Sheldon G 1899*† Morgantown, W. Va.
Professor of Botany, West Virginia University

Lucian Ambler Sheldon G 1905 Schenectady, N. Y.
Engineer, General Electric Company

Mary Emily Sinclair G 1905 Oberlin, Ohio
Associate Professor of Mathematics, Oberlin College

Clarence Aurelius Skinner F 1900 Lincoln, Neb.
Professor of Physics, University of Nebraska

Arthur Bessey Smith G 1901 Chicago, Ill.
Electrical Engineer, Automatic Electric Company

Harry Scott Smith G 1907 Washington, D. C.
Entomological Expert, U. S. Department of Agriculture

Jared Gage Smith G 1898*† Kealakekua, H. I.

David Henry Squires U 1911 Ord, Neb.
Farmer

Joel Stebbins G 1899* (Illinois CF 1904) Urbana, Ill.
Assistant Professor of Astronomy, University of Illinois

Alvin Arthur Steele G 1899 Fayetteville, Ark.
Professor of Mining, University of Arkansas

John Cyprian Stevens G 1905 Portland, Ore.
Civil Engineer

Lucius Seymour Storrs A 1897 New Haven, Conn.
Vice-President, The Connecticut Company

Oscar Van Pelt Stout CF 1897 Lincoln, Neb,
Head Professor of Civil Engineering, University of Nebraska

Caroline Effie Stringer G 1903 Omaha, Neb.
Teacher of Biology, High School

LaZelle Brantly Sturdevant G 1905 Lincoln, Neb.
Assistant Professor of Animal Pathology, University of Nebraska

George Leonard Sullivan G 1908 Bozeman, Mont.
Assistant Professor of Mechanical Engineering, Montana State College

Myron Harmon Swenk G 1907 Lincoln, Neb.
Associate Professor of Entomology, University of Nebraska

Samuel August Swenson G 1908 Oakland, Neb.
Physician and Surgeon

Goodwin DeLoss Swezey CF 1897 Lincoln, Neb.
Professor of Astronomy, University of Nebraska

Leroy Dey Swingle G 1906 Laramie, Wyo.
Research Parasitologist, University of Wyoming

John Torrence Tate G 1911 Lincoln, Neb.
Graduate Student, University of Nebraska

Roscoe Wilfred Thatcher F 1900* Pullman, Wash.
Director, Experiment Station, State College of Washington

Edwin Leroy Thomas G 1904
(Deceased 1907)

Clinton Adam Thompson U 1909 University, N. D.
Superintendent of Construction, University of North Dakota

John James Thornber G 1901* Tucson, Ariz.
Professor of Biology, University of Arizona

Claude Raymond Tillotson U 1909 Washington, D. C.
Forest Service, U. S. Department of Agriculture

Arthur Quincy Tool G 1906 Berlin, Germany
Student in University of Berlin

Robert Samuel Trumbull F 1909 Lincoln, Neb.
Adjunct Professor of Chemistry, University of Nebraska

James C Tucker U 1910 Omaha, Neb.
Medical Student, University of Nebraska

Leonard Whittier Turner G 1905 Schenectady, N. Y.
With General Electric Company

Fred Wilbert Upson G 1907 Cincinnati, Ohio
Instructor in Chemistry, University of Cincinnati

Ora Elmer Van Berg U 1910 La Pryor, Tex.
Civil Engineer

Alice Venters G 1905 Syracuse, N. Y.
(Mrs Charles A Lambeth)

Herbert Harold Waite F 1904* Lincoln, Neb.
Professor of Bacteriology and Pathology, University of Nebraska

Elda Rema Walker G 1906 Lincoln, Neb.
Assistant Professor of Botany, University of Nebraska

Leva Belle Walker G 1908 Lincoln, Neb.
Adjunct Professor of Botany, University of Nebraska

Ivan Emanuel Wallin G 1908 New York City
Instructor in Anatomy, Bellevue Hospital Medical College

Henry Baldwin Ward CF 1897*† (Illinois F 1909) Urbana, Ill.
Professor of Zoology, University of Illinois

Norton Ware G 1904 San Francisco, Ill.
Bridge Engineer, Western Pacific Railway

Joseph Allen Warren G 1898 Kouts, Ind.
Manager, Grasmere Land Company

Frank Elbert Watson G 1901 Geneva, N. Y.
Instructor in Biology, Hobart College

John Ernest Weaver G 1911 Lincoln, Neb.
Graduate Student, University of Nebraska

Herbert John Webber G 1898*† Ithaca, N. Y.
Professor of Plant Breeding, Cornell University

Edith Leonore Webster G 1907 Lincoln, Neb.
Assistant in Geology, University of Nebraska

Vernon Vilas Westgate G 1910 Lincoln, Neb.
Assistant Professor of Horticulture, University of Nebraska

John White F 1897* Terre Haute, Ind.
Professor of Chemistry, Rose Polytechnic Institute

Edwin Mead Wilcox F 1909 Lincoln, Neb.
Professor of Botany, University of Nebraska

William Albert Willard F 1903 Lincoln, Neb.
Professor of Histology, University of Nebraska

Cyrus Vance Williams G 1910 University Place, Neb.
Professor of Botany, Wesleyan University

Samuel Robinson Williams G 1903 Oberlin, Ohio
Professor of Physics, Oberlin College

Thomas Albert Williams G 1898
(Deceased 1900)

Arthur Rockwell Wilson G 1907 Pueblo, Col.
With Pueblo Bridge Company

Sherman Ray Wilson U 1910 Muskegon, Mich.
Athletic Director, High and Manual Training School

George Samuel Wilson G 1906 (Washington F 1907) Seattle, Wash.
Assistant Professor in Mechanical Engineering, University of Washington

Hugh Wilson G 1897 Sausalito, Cal.
Superintendent, North Western Pacific Railroad

Donna Lavonne Withey G 1907 Clarks, Neb.
(Mrs Little)

Walter Jacob Wohlenberg U 1910 East Pittsburgh, Pa.
Apprentice, Westinghouse Machine Company

Robert Henry Wolcott F 1897*† Lincoln, Neb.
Acting Dean of College of Medicine and Head Professor of Zoology

Frederick Adolph Wolf G 1908 Auburn, Ala.
Pathologist, Alabama Polytechnic Institute

Elmer Grant Woodruff G 1901* Washington, D. C.
Geologist, U. S. Geological Survey

Albert Fred Woods G 1898*† Minneapolis, Minn.
Dean of College of Agriculture, University of Minnesota

Robert Thompson Young G 1905 Grand Forks, N. D.
Assistant Professor of Zoology, University of North Dakota

John Todd Zimmer U 1910 Lincoln, Neb.
Field Expert in Entomology, University of Nebraska

Leslie Lewis Zook G 1907 Washington, D. C.
Scientific Assistant, U. S. Department of Agriculture

OMEGA CHAPTER

Ohio State University, Columbus, Ohio

Charter Dated June 1, 1898 Chapter Installed December 10, 1998

HISTORICAL SKETCH

The Omega Chapter of the Society of the Sigma Xi was established at Ohio State University in 1898 with twenty-seven charter members who were members of the faculty.

The Chapter has grown from year to year until at the time of this writing there are some eighty-five members of the instructional staff of the Ohio State University and graduate students of this institution who are members of the Omega Chapter. Each year members are elected from the faculty, the graduate school and the senior class. One piece of published research at least is required of a faculty member before he is eligible for election to membership.

On the night of February 14, 1904, the charter and records of this Chapter were destroyed, in the burning of the chemistry building. A committee was appointed to prepare new records, by-laws, etc., but of necessity these records so restored are at best incomplete.

During the past half dozen years the Chapter has been active in research, many publications representing a large number of fields of work have come from its members. In addition this Chapter has given a series of at least three public lectures each year. These lectures are given by men noted for research and coming to us from other universities and vocations in life. Each year a public lecture is given by a member of the Society.

Four years ago the Chapter was enabled to establish a lectureship foundation for a period of five years through the generosity of a leading citizen of Columbus, Mr. J. C. Campbell. It is hoped that at the end of this period a permanent endowment fund may accrue to the society. The nine lecturers upon the J. C. Campbell Foundation thus far, and in the order of their appearance, are: Professor Starr of the University of Chicago; Doctor Wiley, U. S. Bureau of Chemistry; Professor Barnard, the University of Chicago; the late Doctor Ricketts of the University of Chicago; Doctor Munsterberg of Harvard College; Doctor Stiles of the U. S. Public Health and Marine-Hospital Service; Doctor Michelson, the Nobel prize physicist, of the University of Chicago; Professor Bailey of Cornell University; Colonel G. W. Goethals, Chief Engineer of the Panama Canal.

C. S.

OFFICERS FOR 1911–12

President	Ross C Purdy
Vice-President	Charles Sumner Plumb
Recording Secretary	Edward Foster Coddington
Corresponding Secretary	Edward Foster Coddington
Treasurer	Albert Harrison Hinkle
Councilor	Edward Orton, Jr.

MEMBERSHIP ROLL

Frederick Charles Alsdorf A 1905 Globe, Ariz.
Consulting Engineer, General Development Company

Catherine Emily Andrews G 1902 Swarthmore, Pa.
(Mrs C W Gay)

Charles Lincoln Arnold F 1898 Columbus, Ohio
Associate Professor of Mathematics, Ohio State University

Harrison Everett Ashley U 1905* Pittsburgh, Pa.
U. S. Geological Survey

Myron Ansel Bachtel U 1911 Columbus, Ohio
Instructor in Agricultural Chemistry, Ohio State University

Ervin George Bailey U 1903 Boston, Mass.
Engineer, Fuel Testing Company

Frank Kelton Bailey F 1908
(Deceased 1909)

Elmer Darwin Ball G 1901 Logan, Utah
Director Experiment Station, Agricultural College

Alfred Henry Barnes U 1907 Schenectady, N. Y.
Research Laboratory, General Electric Company

Samuel Jackson Barnett F 1911 Columbus, Ohio
Assistant Professor of Physics, Ohio State University

William Morton Barrows F 1910 Columbus, Ohio
Assistant Professor of Zoology, Ohio State University

Harold Criswell Bartholomew U 1906 State College, Pa.
Instructor in Railway Engineering, Pennsylvania State College

Burr A Beach U 1909 Geneva, Ohio

Firman Edward Bear U 1908 Columbus, Ohio
Assistant Professor of Agricultural Chemistry, Ohio State University

James Anderson Beer U 1903 Columbus, Ohio
City Bacteriologist

Edward William Berger G 1906 Gainesville, Fla.
Entomologist, Florida Agricultural Experiment Station

Frederick Columbus Blake G 1907* (Columbia G 1904) Columbus, Ohio
Assistant Professor of Physics, Ohio State University

Albert Martin Bleile CF 1898* Columbus, Ohio
Professor of Anatomy and Physiology, Ohio State University

Jay George Bloom A 1905 Mill Creek, Okla.
President, Southern Ballast Company

Albert Victor Bleininger U 1901 (Illinois F 1910) Urbana, Ill.
Professor of Ceramics, University of Illinois

Rosser Daniel Bohannan CF 1898 Columbus, Ohio
Professor of Mathematics, Ohio State University

Edwin Spilman Bonnett U 1909 Fairmount, W. Va.

Cecil Ernest Boord G 1909 Columbus, Ohio
Assistant in Chemistry, Ohio State University

Perry Elmer Borchers U 1907 Phoenix, Ariz.
Contracting Engineer

Perla G Bowman F 1898 Durham, N. H.
(Mrs Wm David Gibbs) New Hampshire College of Agriculture

John Adams Bownocker CF 1898* Columbus, Ohio
Professor of Geology, Ohio State University

James Ellsworth Boyd CF 1898* (Cornell G 1896) Columbus, Ohio
Professor of Mechanics, Ohio State University

Joseph Nelson Bradford CF 1898 Columbus, Ohio
Professor of Architecture, Ohio State University

Roy Brenholts U 1907 Columbus, Ohio
Engineer, American Cash Register Company

Benjamin Talbot Brooks U 1906 Manila, P. I.
Chemist, Bureau of Science

Herbert Barton Brooks U 1903 Washington, D. C
Associate Physicist, U. S. Bureau of Standards

Christopher Newton Brown CF 1898
(Deceased 1902)

Newton Henry Brown CF 1898 (Cornell G 1898) Austin, Tex.
Professor of Electrical Engineering, University of Texas

Joseph Raymond Burkey U 1908 Agricultural College, N. M.
Assistant in Mathematics, Agricultural College

Glenn Smith Burrell U 1904 Portsmouth, Va.
Assistant Engineer, U. S. Naval Station

Francis Cary Caldwell CF 1898* (Cornell U 1890) Columbus, Ohio
Professor of Electrical Engineering, Ohio State University

Leland Everett Call U 1906 Manhattan, Kan.
Associate Professor of Soils, Kansas State Agricultural College

Lewis Warrington Chubb U 1905 East Pittsburgh, Pa.
Engineer, Westinghouse Electric and Manufacturing Company

Wistar Morris Chubb U 1907 Ft. Leavenworth, Kan.
Second Lieutenant, Corps of Engineers, U. S. Army

Clinton Willard Clark G 1910 Pittsburgh, Pa.
Instructor and Research Fellow, University of Pittsburgh

Hugh Clark G 1910 Pittsburgh, Pa.
Instructor, University of Pittsburgh

Frank Orville Clements A 1911 Dayton, Ohio
Chief Chemist, National Cash Register Company

Edward Foster Coddington F 1902 Columbus, Ohio
Associate Professor of Mechanics, Ohio State University

Alfred Dodge Cole F 1902*† Columbus, Ohio
Professor of Physics, Ohio State University

Reginald Clinton Collison U 1908 Wooster, Ohio
Assistant in Nutrition, Ohio Agricultural Experiment Station

Stanley Edgar Collison U 1908 Gainesville, Fla.
Chief, Chemistry Department, Florida Agricultural Experiment Station

Daniel Dale Condit U 1909 Columbus, Ohio
Assistant, State Geological Survey

Melville Thurston Cook F 1902* New Brunswick, N. J.
Professor of Plant Pathology, Rutgers College

Charles Proctor Cooper U 1907 Albany, N. Y.
Engineer, New York Telephone Company

Forrest Winfred Coover U 1900 Ames, Ia.
Associate Professor of Chemistry, Iowa Agricultural College

Edwin Charles Cotton U 1905 Knoxville, Tenn.
Assistant Entomologist, Agricultural Experiment Station

Merlin Lee Cox U 1911 New York City
New York Telephone Company

Francis Marion Craft U 1905 Riverside, Ill.
Telephone Engineer

Shirley Ray Cragg U 1909 Hartwell, Ohio
Superintendent, International Silver Mines

Evan Jay Crane U 1911 Columbus, Ohio
Associate Editor, Chemical Abstracts

Jessie Floy Cross U 1909 Racine, Ohio

John Ferguson Cunningham F 1898 Cleveland, Ohio
Editor, Ohio Farmer

Leigh G Curtis U 1898 Chicago, Ill.
Engineer, Baltimore and Ohio Railroad

Alfred Paul Dachnowski F 1908* (Michigan G 1905) Columbus, Ohio
Assistant Professor of Botany, Ohio State University

Vernon Hayes Davis U 1901 Columbus, Ohio
Assistant Professor of Horticulture and Forestry, Ohio State University

William Joseph Davis U 1907 Plain City, Ohio
Farmer

Albert Watson Davison U 1911 Columbus, Ohio
Assistant Chemist, Ohio State University

John Wright Decker F 1898
(Deceased 1907)

Dana James Demorest U 1907 Columbus, Ohio
Assistant Professor of Metallurgy, Ohio State University

Ralph Hugo Demorest U 1904 Toledo, Ohio
Teacher of Physics, High School

Florence Harlow Derby F 1898 Houghton, Mich.
(Mrs Charles E Haigler)

Fredericka Detmers F 1909 Columbus, Ohio
Instructor in Botany, Ohio State University

Malcolm Gillespie Dickey U 1911 Ithaca, N. Y.
Student, Cornell University

Howard Dock U 1911 Cincinnati, Ohio
William Dock and Company

Alma Drayer G 1908 Durham, N. H.
(Mrs C Floyd Jackson)

Mervin Dresbach F 1902* (Cornell F 1906) Ithaca, N. Y.
Assistant Professor of Physiology, Cornell University

Wilbur Latimer Dubois U 1901 Buffalo, N. Y.
Chief Chemist, U. S. Department of Agriculture

Howard Edward Dyche U 1906 Pittsburgh, Pa.
Professor of Mathematics, University of Pittsburgh

Clair Albert Dye F 1898 Columbus, Ohio
Professor of Pharmacy, Ohio State University

Robert Francis Earhart F 1903* Columbus, Ohio
Associate Professor of Physics, Ohio State University

Mary Elizabeth Edmonds U 1910 Columbus, Ohio
University Extension Work (Agriculture)

John Edward Emswiler U 1903 (Michigan F 1908) Ann Arbor, Mich.
Assistant Professor of Engineering, University of Michigan

Frank Harvey Eno F 1902 Columbus, Ohio
Professor of Municipal Engineering, Ohio State University

Oscar Erf G 1899 Columbus, Ohio
Professor of Dairying, Ohio State University

William Lloyd Evans G 1905 (Chicago G 1904) Columbus, Ohio
Associate Professor of Chemistry, Ohio State University

Oliver Lanard Fassig A 1905*† San Juan, Porto Rico
Section Director, U. S. Weather Bureau

Luther Thomas Fawcett U 1908 Youngstown, Ohio
Deputy County Surveyor

Bertha (Lamme) Feicht A 1905 Pittsburgh, Pa.
(Mrs Russell Stemson Feicht)

Russell Stemson Feicht A 1905 Pittsburgh, Pa.
Head of Industrial Division, Westinghouse Electric Company

Arno Charles Fieldner U 1906 Pittsburgh, Pa.
Chemist, U. S. Bureau of Mines

Robert Fischer F 1898 St. Louis, Mo.
Teacher of Chemistry, William McKinley High School

Fred Alan Fish F 1898 Ames, Ia.
Professor of Electrical Engineering, Iowa State College

Albert Daniel Fitzgerald U 1905 Reynoldsburg, Ohio
State House

Dean Wilcox Flowers U 1905 Long Branch, N. J.
Superintendent, Consolidated Gas Company of New Jersey

Charles William Foulk F 1898* Columbus, Ohio
Professor of Chemistry, Ohio State University

Elma (Perry) Foulk U 1901 Columbus, Ohio
(Mrs Charles William Foulk)

Edward Francis A 1905 Washington, D. C.
U. S. Public Health and Marine Hospital Service

Mark Francis A 1905† College Station, Tex.
Professor of Veterinary Science, Agricultural and Mechanical College

John Nickalas Frank U 1907 Colleton, S. C.
Engineer, Colleton Cypress Company

Frances Rebecca Freeman U 1910 Moorehead, Minn.
Head of Home Economics Department, State Normal School

Thomas Ewing French F 1898 Columbus, Ohio
Professor of Engineering Drawing, Ohio State University

Edward Lawrence Fullmer G 1898* Berea, Ohio
Professor of Biology, Baldwin University

Lee Connel Gatewood G 1910 Chicago, Ill.
Physician, Presbyterian Hospital

Catherine Emily (Andrews) Gay U 1902 Swarthmore, Pa.
(Mrs C W Gay)

Perla (Bowman) Gibbs F 1898 Durham, N. H.
(Mrs Wm David Gibbs)

William David Gibbs CF 1898 Durham, N. H.
President, New Hampshire College of Agriculture

John Chester Gibson U 1906 Du Quoin, Ill.
Standard Engineering Company

Paul Miller Giesy U 1910 Columbus, Ohio
Graduate Student, Ohio State University

Herbert Charles Gore G 1900 Washington, D. C.
Bureau of Chemistry

Earnest Holman Grant U 1910 New Orleans, La.
Chemist

George Francis Gray U 1909 Schenectady, N. Y.
Engineer, General Electric Company

Robert Fiske Griggs U 1903 Columbus, Ohio
Assistant Professor of Botany, Ohio State University

George Perry Grimsley A 1905* Martinsburg, W. Va.
Assistant State Geologist

Arthur Guillaudeu U 1911 Cincinnati, Ohio
Chemist and Assistant Superintendent, M. Werk Company

Florence Harlow (Derby) Haigler F 1898 Brookline, Mass.
(Mrs Charles Edmund Haigler)

Thomas Harvey Haines F 1905* Columbus, Ohio
Professor of Psychology, Ohio State University

Fred James Hale U 1898 East Pittsburgh, Pa.
Chief Draftsman, Westinghouse Machine Company

Ralph Edwin Hall U 1911 Columbus, Ohio
Instructor in Agricultural Chemistry, Ohio State University

James Chase Hambleton G 1907 Columbus, Ohio
Teacher of Science, East High School

Howard Spurr Hammond U 1908 Agricultural College, N. M.
Professor of Biology, New Mexico College of Agriculture

Edwin George Hastings A 1905 (Wisconsin CF 1907) Madison, Wis.
Associate Professor of Bacteriology, University of Wisconsin

Albert Henry Heller F 1902
(Deceased 1906)

William Edwards Henderson F 1902* Columbus, Ohio
Professor of Chemistry, Ohio State University

William Brodbeck Herms G 1906 (California F 1908) Berkeley, Cal.
Assistant Professor of Entomology, University of California

Thomas McDougall Hills F 1910 (Chicago G 1905) Columbus, Ohio
Assistant Professor of Geology, Ohio State University

James Stewart Hine F 1898* Columbus, Ohio
Associate Professor of Zoology, Ohio State University

Albert Harrison Hinkle U 1907 Columbus, Ohio
Deputy Highway Commissioner

Embury Asbury Hitchcock CF 1898 Columbus, Ohio
Professor of Experimental Engineering, Ohio State University

John Hoffhine U 1904 Omaha, Neb.
Chemist, Union Pacific Railroad

Emily Constance Hollister G 1910 Los Angeles, Cal.
Assistant in Physiology, State Normal School

George David Hubbard F 1907 (Cornell G 1905) Oberlin, Ohio
Professor of Geology, Oberlin College

Josiah Simson Hughes G 1910 Manhattan, Kan.
Kansas State Agricultural College

John Herman Hunt F 1907 (Michigan U 1905) Columbus, Ohio
Associate Professor of Electrical Engineering, Ohio State University

Thomas Forsyth Hunt CF 1898*† State College, Pa.
Dean of Agriculture, Pennsylvania State College

Madone Carington Hunter U 1900 Holton, Kan.
Superintendent, Electric Light and Water Works

Jesse Earl Hyde U 1906 Kingston, Ont.
Assistant Professor, School of Mining

Alma Drayer Jackson G 1908 Durham, N. H.
(Mrs C Floyd Jackson)
Assistant in Zoology, New Hampshire State College

Cicero Floyd Jackson G 1906 Durham, N. H.
Professor of Zoology and Entomology, New Hampshire State College

Otto Emery Jennings U 1903* Pittsburgh, Pa.
Custodian, Botanical Collections, Carnegie Museum

Horace Judd F 1898 Columbus, Ohio
Associate Professor of Experimental Engineering, Ohio State University

Walter Raymond Judson U 1903 Mexico, D. F., Mex.
Engineer, Victor M. Braschi

Sidney Hershberg Katz U 1909 Durham, N. H.
Instructor in Chemistry, New Hampshire College

George Beecher Kauffman CF 1898 Columbus, Ohio
Professor of Pharmacy, Ohio State University

Frederick Keffer A 1905 Greenwood, B. C.
General Manager, British Columbia Copper Company, Limited

William Ashbrook Kellerman CF 1898*
(Deceased 1908)

David Raymond Kellogg G 1909 Columbus, Ohio
Instructor in Chemistry, Ohio State University

William Frederick Kern U 1902 Columbus, Ohio
Fuel and Supply Company

Charles Henry Kerr U 1909 Creighton, Pa.
Chemist, Pittsburgh Plate Glass Company

Frederick Edward Kester G 1898* (Cornell G 1899) Lawrence, Kan.
Professor of Physics, University of Kansas

Charles Franklin Kettering U 1903 Dayton, Ohio
Electrical Engineer, Dayton Engineering Laboratories Company

William Abner Knight U 1900 Columbus, Ohio
Associate Professor of Machine Shop Practice, Ohio State University

John McBride Knote G 1906 Pittsburgh, Pa.
Pittsburgh Testing Laboratory

Donald Alexis Kohr U 1899 Dayton, Ohio
Superintendent, Lowe Brothers Company

Harry Waldo Kuhn F 1900 (Cornell G 1899) Columbus, Ohio
Professor of Mathematics, Ohio State University

Fred Raymond Kunkel U 1903 Pittsburgh, Pa.
Transformer Department, Westinghouse Electric and Manufacturing Company

Charles Henry Lake U 1909 Hamilton, Ohio
Principal of High Schools

Bertha A Lamme A 1905 Pittsburgh, Pa.
(Mrs Russell Stemson Feicht)

Benjamin G Lamme A 1905 Pittsburgh, Pa.
Chief Engineer, Westinghouse Electric and Manufacturing Company

Francis Leroy Landacre F 1898* Columbus, Ohio
Professor of Zoology, Ohio State University

Walter Alexander Landacre U 1901 Columbus, Ohio
Chemist, H. Braun Sons and Company

William Rane Lazenby CF 1898*† (Cornell A 1887) Columbus, Ohio
Professor of Horticulture and Forestry, Ohio State University

Paul Martyn Lincoln A 1905* Pittsburgh, Pa.
Head of Power Division, Westinghouse Electric and Manufacturing Company

Clarence Philander Linville U 1901 State College, Pa.
Associate Professor of Metallurgy, Pennsylvania State College

Henry Curwen Lord CF 1898 Columbus, Ohio
Professor of Astronomy, Ohio State University

Nathaniel Wright Lord CF 1898*† Columbus, Ohio
Professor of Metallurgy and Mineralogy, Ohio State University

Howard Johnson Lucas U 1907 Chicago, Ill.
Chemist, U. S. Department of Agriculture

John Franklin Lyman F 1909 (Yale G 1908) Columbus, Ohio
Associate Professor of Agricultural Chemistry, Ohio State University

Margaret Maclean G 1910 Columbus, Ohio
Assistant in Chemistry, Ohio State University

William Thomas Magruder CF 1898*† Columbus, Ohio
Professor of Mechanical Engineering, Ohio State University

Charles Curtis Major F 1906* Ames, Ia.
Associate Professor of Engineering, Iowa State College

Edmund Sewall Manson, Jr F 1910 Columbus, Ohio
Associate Professor of Astronomy, Ohio State University

Clara Gould Mark F 1911 Columbus, Ohio
Fellow in Geology, Ohio State University

William Benjamin Marquardt U 1905 Sharon, Pa.
Superintendent, T. H. Buhl Club

Frederick Rupert Marshall F 1908 Columbus, Ohio
Professor of Animal Husbandry, Ohio State University

Charles Frederick Marvin A 1905*† Washington, D. C.
Professor of Meteorology, U. S. Weather Bureau

Eugene Franklin McCampbell F 1907 Columbus, Ohio
Professor of Bacteriology, Ohio State University

Edna May McCleery U 1907 Lancaster, Ohio
Teacher of Botany, High School

Charles Walter McClure U 1906 Columbus, Ohio
Physician, Starling Ohio Medical College

Roy Donaldson McClure A 1911 Jekyl Is., Ga.

George Washington McCoard CF 1898 Columbus, Ohio
Professor of Mathematics, Ohio State University

Arthur Howard McCray U 1909 Washington, D. C.
Assistant, Bureau of Entomology, Department of Agriculture

Taine Gilbert McDougal U 1911 Spokane, Wash.
Superintendent, Clay Products Company

James Howard McGregor A 1911 New York City
Adjunct Professor of Zoology, Columbia University

Roscoe Everett McIntosh U 1902 Los Angeles, Cal.
McIntosh Electrical Company

Marie Fansher McLellan U 1911 Columbus, Ohio
Graduate Student at Ohio State University

Loren Wallace McOmber F 1910 (Michigan U 1907) Columbus, Ohio
Assistant Professor of Electrical Engineering, Ohio State University

William McPherson CF 1898*† Columbus, Ohio
Professor of Chemistry, Ohio State University

Charles Searing Mead U 1904 San Pedro, Isle of Pines, W. I.
Director, Isle of Pines Experiment Station

Cyrus Alan Melick G 1910 East Lansing, Mich.
Assistant Professor of Engineering, State Agricultural College

Thomas Corwin Mendenhall A 1911 Ravenna, Ohio
Retired

Ferrand Seymour Merrill U 1905 Pittsburgh, Pa.
Engineer, American Bridge Company

Ralph Davenport Mershon A 1905*† New York City
Consulting Engineer

Clell Lee Metcalf U 1911 Columbus, Ohio
Assistant, Department of Zoology and Entomology, Ohio State University

Clyde Raymond Miller U 1911 Mt. Vernon, Ohio
Teacher

Edgar Allan Miller U 1910 Negaunee, Mich.
Principal, High School

Merritt Finley Miller U 1900 (Missouri F 1905) Columbia, Mo.
Professor of Agronomy, University of Missouri

William C Mills F 1898* Columbus, Ohio
Curator of Museum of Archaeology, Ohio State University

Edward Russell Minns U 1905 (Cornell F 1908) Ithaca, N. Y.
Assistant Professor of Extension, State College of Agriculture

Bruce Monroe Mohler U 1909 Minneapolis, Minn.
Chemist, State Board of Health, University of Minnesota

Ernest Ellsworth Moore U 1907 Melones, Cal.
Electrical Engineer, Melones Mining Company

Lou Helen Morgan G 1910 Pittsburgh, Pa.
(Mrs C C Vogt)

Sergius Morgulis G 1898 Cambridge, Mass.
Fellow, Harvard University

Charles Bradfield Morrey F 1902* Columbus, Ohio
Professor of Bacteriology, Ohio State University

Clyde Tucker Morris F 1908 Columbus, Ohio
Associate Professor of Structural Engineering, Ohio State University

Max Withrow Morse U 1902 Hartford, Conn.
Professor of Biology, Trinity College

William Clifford Morse G 1906 Columbus, Ohio
Instructor in Geology, Ohio State University

Harry Clifford Mougey U 1911 Dayton, Ohio
Chemist, Lowe Brothers Paint Company

Gerard Archibald Murray U 1910 Columbus, Ohio
Laboratory Assistant, Ohio State University

John H Nold U 1900 Columbus, Ohio
Mine Engineer, Ray and Nold

Sidney Augustus Norton F 1898*† Columbus, Ohio
Emeritus Professor of Chemistry, Ohio State University

Christian Nusbaum G 1910 Cambridge, Mass.
Whiting Fellow in Physics, Harvard University

Walter Colline O'Kane G 1909 Dunham, N. H.
New Hampshire State College

Edward Orton CF 1898
(Deceased 1899)

Edward Orton, Jr CF 1898*† Columbus, Ohio
Dean, College of Engineering, Ohio State University

Herbert Osborn F 1898*† Columbus, Ohio
Professor of Zoology, Ohio State University

Horace Nelson Packard U 1908 Madison, Wis.
Instructor in Mechanical Engineering, University of Wisconsin

Charles Abraham Park U 1907 Fort D. A. Russell, Wyo.
Engineer, War Department

John Bernard Parker G 1908 Washington, D. C.
Instructor in Biology, Catholic University of America

Austin McDowell Patterson F 1909 Columbus, Ohio
Editor of Chemical Abstracts, Ohio State University

Forrest Kizer Pence U 1907 Zanesville, Ohio
Engineer, American Encaustic Tiling Company

Elma Brooks Perry U 1901 Columbus, Ohio
(Mrs Charles William Foulk)

John William Petersen U 1903 Canton, Ohio
Chief Draftsman, American Bridge Company

James McIlvane Phillips F 1909 Columbus, Ohio
Physician

Harley Martin Plum U 1902 Cleveland, Ohio
Teacher, Technical High School

Charles Sumner Plumb F 1902*† Columbus, Ohio
Professor of Animal Husbandry, Ohio State University

Edward J Pranke U 1911 Nashville, Tenn.
Technologist, American Cyanamid Company

Jean Paul Pratt U 1906 Wellington, Ohio

Homer Charles Price U 1900 Columbus, Ohio
Dean, College of Agriculture, Ohio State University

Irwin G Priest U 1907 Washington, D. C.
Assistant Physicist, Bureau of Standards

Charles Smith Prosser F 1900*† (Cornell F 1887) Columbus, Ohio
Professor of Geology, Ohio State University

Ross C Purdy F 1908 Columbus, Ohio
Professor of Ceramics, Ohio State University

Earl Berger Putt U 1909 Fargo, N. D.
Agricultural College

Modesta Quiroga U 1904 San Luis, Argentina

Samuel Eugene Rasor U 1898 Columbus, Ohio
Associate Professor of Mathematics, Ohio State University

Thomas Francis Rataiczak U 1908 Columbus, Ohio
Mechanical Engineer, Columbus Railway and Light Company

Franklin Arnold Ray CF 1898† Columbus, Ohio
Professor of Mine Engineering, Ohio State University

Ray Howard Rice U 1904 Portsmouth, Va.
Chief Draftsman, Norfolk and Southern Railway Company

Hortense Rickard G 1910 Columbus, Ohio
Assistant in Mathematics, Ohio State University

John Scott Riddile U 1904 New York City
Engineer with W. D. Mershon

Howard Sterling Riddle A 1905 Columbus, Ohio
Vice-President, Weinman Pump Manufacturing Company

Lumina Cotton Riddle G 1905 Topeka, Kan.
(Mrs Bernard B Smyth) Curator, Goss Museum

Leroy Walter Roush G 1909 Gunnison, Utah
Engineer, Gunnison Valley Power Company

Frank Ruhlen U 1900 Plain City, Ohio
Farmer

Wallace Clement Sabine A 1905*† Cambridge, Mass.
Dean of Scientific School, Harvard University

John Walter Sale G 1909 Washington, D. C.
Chemist, U. S. Department of Agriculture

Frank Edwin Sanborn F 1898 Columbus, Ohio
Professor of Industrial Arts, Ohio State University

James Glossbrenner Sanders G 1903 Madison, Wis,
College of Agriculture, University of Wisconsin

John Henry Schaffner F 1898* Columbus, Ohio
Professor of Botany, Ohio State University

Charles Felton Scott A 1905*† New Haven, Conn.
Professor of Electrical Engineering, Yale University

Harry Charles Severin G 1908 Brookings, S. D.
State Entomologist and Professor of Entomology, South Dakota State College

Henry Herman Paul Severin G 1908 Honolulu, H. I.
Professor of Entomology, College of Hawaii

Charles Sheard F 1908 Columbus, Ohio
Assistant Professor of Physics, Ohio State University

Cree Sheets U 1909 Columbus, Ohio
Instructor in Drawing, Ohio State University

Paul King Sheidler U 1909 Cody, Wyo.
Engineer

Charles William Shepherd U 1900 St. Louis, Mo.
Superintendent, Illinois Steel Warehouse Company

Christopher Elias Sherman CF 1898 Columbus, Ohio
Professor of Civil Engineering, Ohio State University

James Edmond Shrader G 1909 Medford, Mass.
Instructor in Physics, Tufts College

Charles Peter Sigerfoos A 1911 Minneapolis, Minn.
Professor of Zoology, University of Minnesota

Trevor Burchfield Simon U 1907 Columbus, Ohio
Engineer, Jeffrey Manufacturing Company

Septimus Sisson F 1902 Columbus, Ohio
Professor of Comparative Anatomy, Ohio State University

Charles Edward Skinner A 1905* East Pittsburgh, Pa.
Research Engineer, Westinghouse Electric and Manufacturing Company

Agnes Smiley U 1908 Columbus, Ohio
(Mrs Lee W Funk)

Alpheus Wilson Smith F 1909 (Wisconsin F 1906) Columbus, Ohio
Assistant Professor of Physics, Ohio State University

Clara Smith U 1911 Columbus, Ohio
Fellow in Agricultural Chemistry, Ohio State University

Harry Ford Smith U 1902 Lexington, Ohio
Manager, Smith Gas Power Company

Howard Dwight Smith U 1907 New York City
Architect

Lumina (Riddle) Smyth G 1905 Topeka, Kan.
(Mrs Bernard B Smyth)
Curator, Goss Museum

Erwin Sohn U 1909 St. Marys, Pa.
Chief Chemist, Starkpole Battery Company

Edward Elsworth Somermeir U 1898 Columbus, Ohio
Associate Professor of Metallurgy, Ohio State University

Robert Browning Sosman U 1903 Washington, D. C.
Geophysical Laboratory, Carnegie Institute

Frederick William Sperr A 1905 Houghton, Mich.
Professor of Civil and Mining Engineering, Michigan College of Mines

Frederick William Sperr, Jr U 1906 Corey, Ala.
Chief Chemist, By-Product Coke Department, Tennessee Coal Company

Homer Francis Staley F 1910 Columbus, Ohio
Assistant Professor of Ceramics, Ohio State University

William Alfred Starin F 1910 Columbus, Ohio
Assistant Professor of Bacteriology, Ohio State University

Clinton Raymond Stauffer G 1906 (Chicago G 1906) Cleveland, Ohio
Associate Professor of Geology, Western Reserve University

Harry Walter Stertzbach U 1910 Columbus, Ohio
Instructor in Civil Engineering, Ohio State University

Alton LeRoy Stewart U 1904
(Deceased 1906)

Thomas Wade Stone U 1902 Ft. Wayne, Ind.
Engineer, Western Gas Construction Company

Minnie Ava Nella Stoner F 1902 Stillwater, Okla.
Dean of Women, Agricultural and Mechanical College

NormanWilson Storer A 1905† Pittsburgh, Pa.
Head of Railway Division, Westinghouse Electric Company

Frank Macy Surface U 1905 (Pennsylvania G 1906) Lexington,
Biologist, Agricultural Experiment Station [Ky.

Harvey Adam Surface A 1911 Harrisburg, Pa.
State Zoologist, and Professor of Zoology

Henry Earl Surface U 1907 Madison, Wis.
Chemist, U. S. Forest Service, Lecturer at University of Wisconsin

Karl Dale Swartzel CF 1898 Columbus, Ohio
Professor of Mathematics, Ohio State University

Otto Herman Swezey G 1902 Honolulu, H. I.
Entomologist, Experiment Station, Sugar Planters Association

Orland Russell Sweeney U 1909 Philadelphia, Pa.
Instructor in Chemistry, University of Pennsylvania

Mignon Talbot A 1911 South Hadley, Mass.
Professor of Geology, Mt. Holyoke College

Frederick Wellington Taylor U 1900 Durham, N. H.
Professor of Agronomy, New Hampshire College

Chester Henry Teegarden U 1910 Schenectady, N. Y.
Engineer, New York Telephone Company

Benjamin Franklin Thomas CF 1898*† Columbus, Ohio
Professor of Physics, Ohio State University

Phillips Thomas U 1904 Princeton, N. J.
Graduate Student, Princeton University

Opal Ione Tillman U 1905 Raleigh, N. C.
State Botanist of North Carolina

Oswald Herman Tresselt U 1907 Glen Cone, N. Y.
District Foreman, New York Telephone Company

Louis Bryant Tuckerman F 1902* Lincoln, Neb.
Adjunct Professor of Physics, University of Nebraska

Frederic Jared Tyler U 1902 Perry, Ohio

Walter Lyman Upson F 1909 Burlington, Vt.
Professor of Electrical Engineering, University of Vermont

Clifford Steele Van Dyke U 1902 Schenectady, N. Y.
Superintendent, Schenectady Illuminating Company

Perry Van Ewing U 1911 Manhattan, Kan.
Assistant to President, Kansas State Agricultural College

Edward M Van Harlingen F 1898
(Deceased 1900)

Albert Earl Vinson A 1911 Tucson, Ariz.
Biochemist, University of Arizona

Alfred Vivian F 1903 Columbus, Ohio
Professor of Agricultural Chemistry, Ohio State University

Clarence Charles Vogt G 1906 Pittsburgh, Pa.
Assistant Professor of Chemistry, University of Pittsburgh

Lou Helen Morgan Vogt G 1910 Pittsburgh, Pa.
(Mrs C C Vogt)

Joseph Henry Vosskuehler U 1900 (Wisconsin CF 1907) Madison, Wis.
Assistant Professor of Machine Design, University of Wisconsin

Frank Lawton Olcott Wadsworth A 1905*† Pittsburgh, Pa.
President, Miller Non-Corrosive Metal Company

Frederick Clarence Weber A 1911 Washington, D. C.
Chemist, U. S. Department of Agriculture, Bureau of Chemistry

Henry Adam Weber CF 1898*† Columbus, Ohio
Professor of Agricultural Chemistry, Ohio State University

Charles William Weick U 1898 New York City
Teachers College, Columbia University

Harry Boyer Weiser U 1911 Columbus, Ohio
Fellow in Chemistry, Ohio State University

Bertram Whittier Wells U 1911 Galesburg, Ill.
Instructor in Biology, Knox College

Carl Joseph West U 1908 Columbus, Ohio
Assistant Professor of Mathematics, Ohio State University

Horace J Whitacre A 1905 Cincinnati, Ohio
Physician, Professor of Surgery, University of Cincinnati

David Stuart White CF 1898 Columbus, Ohio
Professor of Veterinary Medicine, Ohio State University

J D Whitmer U 1908 Zanesville, Ohio
Ceramic Engineer, American Encaustic Tiling Company, Ltd.

John Anderson Wilkinson U 1903 Columbus, Ohio
Instructor in Chemistry, Ohio State University

Ernest Daniel Williams U 1905 Schenectady, N. Y.
Engineer, Steam Turbine Department, General Electric Company

Harry Markley Williams U 1908 Dayton, Ohio
Assistant Chemist, National Cash Register Company

Samuel Byron Williams, Jr U 1905 New York City
Telephone Engineer

Edward Bruce Williamson A 1905* Bluffton, Ind.
Cashier, Wells County Bank

Arthur Lyman Williston CF 1898† Boston, Mass.
Principal, Wentworth Institute

Cecil Floyd Wilson U 1911 Newark, N. J.
Engineer, New York Telephone Company

James Renwick Withrow F 1906 Columbus, Ohio
Associate Professor of Chemistry, Ohio State University

James Graham Wittenmyer U 1905 Peebles, Ohio

Edgar John Witzemann G 1909 Columbus, Ohio
Assistant in Chemistry, Ohio State University

Francis Carter Wood A 1905* New York City
Professor of Pathology, Columbia University

William Roth Work U 1905 Pittsburgh, Pa.
Assistant Professor of Electrical Engineering, Carnegie Technical Schools

Samuel S Wyer A 1911 Columbus, Ohio
Consulting Engineer

Lloyd Yost U 1902 Beloit, Wis.
Engineer, Fairbanks, Morse and Company

Howard Patterson Zeller U 1906 Las Esperanzas Coah, Mexico
Mining Engineer

PENNSYLVANIA CHAPTER

University of Pennsylvania, Philadelphia, Pennsylvania

Charter Dated January 4, 1900 Chapter Installed March 20, 1900

HISTORICAL SKETCH

The establishment of the Chapter of the Society of the Sigma Xi at the University of Pennsylvania was due to the initiative of Doctor Edgar F. Smith. Late in the year 1898 a petition for a charter was signed by twelve members of the faculty and presented to the Society, but owing to delays from various causes the charter was not issued until January 4, 1900.

On January 31, 1900, a temporary organization of the petitioners was effected. On March 20, 1900, the Chairman of the Council, Professor Edward L. Nichols of Cornell, performed the initiation ceremonies and presented the charter to The Society of the Sigma Xi at the University of Pennsylvania. The first president was Professor George F. Barker, and the first recording secretary, Professor Edwin S. Crawley.

At a meeting on April 12, 1900, Professor Edgar F. Smith was elected councilor, a position which he has since continued to fill.

It is the policy of the Chapter to hold the election of new members early in the second half of senior year, so that they enjoy the regular proceedings of the society before graduation.

On the afternoon of Commencement Day this Chapter regularly unites with the Pennsylvania Chapter of Phi Beta Kappa in public exercises with a speaker invited alternately by the societies.

F. H. S.

OFFICERS FOR 1911–12

President.....Thomas Nolan
Vice-President.....Allen John Smith
Recording Secretary.....George Gailey Chambers
Corresponding Secretary.....John William Harshberger
Treasurer.....Merkel Henry Jacobs
Councilor.....Edgar Fahs Smith

MEMBERSHIP ROLL

Alexander Crever Abbott CF 1900*† Philadelphia, Pa.
Professor of Hygiene, University of Pennsylvania

William Henry Fitzgerald Addison F1909 Philadelphia, Pa.
Demonstrator of Normal Histology, University of Pennsylvania

Herman Carl Albrecht U 1906 Philadelphia, Pa.
Assistant Engineer, Philadelphia Electric Company

Henry Rihl Alburger U 1902* (Indiana F 1908) Bloomington, Ind.
Professor of Pathology, Indiana University

John Howard Allen U 1902 Portland, Me.
Physician

Walter Haskell Andrus U 1903 Germantown, Pa.
Physician

William Henry Anthony U 1903 Plainfield, N. J.
Physician, Pathologist and Bacteriologist, Mühlenburg Hospital

Astley Paston Cooper Ashhurst U 1900 Philadelphia, Pa.
Instructor in Surgery, University of Pennsylvania

George Mason Astley U 1903 Philadelphia, Pa.
Physician

John Light Atlee U 1900 Lancaster, Pa.
Physician, Lane General Hospital

James Harold Austin U 1905 Philadelphia, Pa.
Assistant Demonstrator of Pathology, University of Pennsylvania

Maurice Jefferis Babb F 1908 Philadelphia, Pa.
Assistant Professor of Mathematics, University of Pennsylvania

Franklin Bache A 1910 Philadelphia, Pa.
President, Bache-Denman Coal Company

Francis Rogers Bacon U 1911 Philadelphia, Pa.
Assistant in Architecture, University of Pennsylvania

Empson Haines Bainbridge U 1901 Philadelphia, Pa.
Physician

Lloyd Balderston G 1904† Ridgeway, Pa.
Chemist, Elk Tannin Company

Clarence William Balke G 1905 (Illinois F 1907) Urbana, Ill.
Assistant Professor of Chemistry, University of Illinois

George Frederick Barker CF 1900*†
(Deceased 1910)

Harold Charles Barker G 1905 Philadelphia, Pa.
Assistant Professor of Physics, University of Pennsylvania

DeWitt Dukes Barlow U 1901 New York City
Vice-President and Engineer, Atlantic Gulf and Pacific Company

William Milton Barr G 1905 (Iowa U 1902) Davenport, Ia.
Acting Manager, Andrews Chemical Company

Harvey Bartle U 1902 Philadelphia, Pa.
Physician

Henry John Bartle U 1905 Philadelphia, Pa.
Physician

Samuel Goodwin Barton G 1906 Swarthmore, Pa.
Assistant Professor of Mathematics, Swarthmore College

Burke Morgan Baxter F 1906 (Case U 1906) Cleveland, Ohio
Engineer with H. B. Prather

John Clemmer Bechtel U 1908 Philadelphia, Pa.
Graduate Student, University of Pennsylvania

Waldron Cheney Beekley U 1908 Hartford, Conn.
Engineer, Whitlock Coil Pipe Company

David Hendricks Bergey F 1901*† Philadelphia, Pa.
Assistant Professor of Bacteriology, University of Pennsylvania

Herman Claude Berry F 1907 Philadelphia, Pa.
Assistant Professor of Materials of Construction, University of Pennsylvania

William Shaeffer Bertolet U 1900 Reading, Pa.
Physician

Paul Harold Bikle U 1904 Mifflinburg, Pa.
Physician

Charles Louis Billard U 1904 Washington, D. C.
Physician

Joseph Cooper Birdsall U 1911 South Starcksboro, Vt.

Walter Martinus Boehm F 1907 (Iowa U 1902) Philadelphia, Pa.
Instructor in Physics, University of Pennsylvania

John Augustus Boers U 1905 Philadelphia, Pa.
Sales Agent, General Electric Company

Gilbert Hillhouse Boggs G 1900* Atlanta, Ga.
Associate Professor of Chemistry, Georgia School of Technology

Frederick Andrew Bokop U 1904 New York City
Sales Department, National Carbon Company

William Henry Bower A 1910 Philadelphia, Pa.
Henry Bower Chemical Manufacturing Company

William Boyd, Jr U 1907 Pittsburgh, Pa.
Architect, Alden and Harlow

Frank Robert Braden U 1901 Coraopolis, Pa.
Physician

John Francis Bresnahan U 1910 Boston, Mass.
Physician

Amos Peaslee Brown CF 1900*† Philadelphia, Pa.
Professor of Mineralogy and Geology, University of Pennsylvania

Albert Ridgely Brunker U 1903 Pittsburgh, Pa.
Sales Manager, American Steel Foundries

Charles Walts Burr F 1910 Philadelphia, Pa.
Professor of Mental Diseases, University of Pennsylvania

Joseph Howell Burroughs, Jr U 1903 New York City
Otis Elevator Company

Philip Powell Calvert F 1904*† Philadelphia, Pa.
Assistant Professor of Zoology, University of Pennsylvania

John Berton Carnett F 1900 Philadelphia, Pa.
Associate in Surgery, University of Pennsylvania

Howard Childs Carpenter U 1900 Philadelphia, Pa.
Physician and Instructor in Pediatrics, University of Pennsylvania

Dana Brackenridge Casteel G 1902* (Michigan G 1903) Austin, Tex.
Adjunct Professor of Zoology, University of Texas

Franklin Smith Chambers U 1904 New Lisbon, N. J
Engineer, J. J. White

George Gailey Chambers F 1908 Philadelphia, Pa.
Assistant Professor of Mathematics, University of Pennsylvania

William Henry Chapin G 1909 Oberlin, Ohio
Associate Professor of Chemistry, Oberlin College

Richard Burt Chillas, Jr U 1906 Cleveland, Ohio
Chemical Engineer, National Carbon Company

Arthur Latham Church A 1910 Philadelphia, Pa.

Harold Sellers Colton G 1906 Philadelphia, Pa.
Assistant in Zoology, University of Pennsylvania

Henry Shoemaker Conard G 1900* Grinnell, Ia.
Professor of Botany, Grinnell College

Edwin Grant Conklin F 1900*† Princeton, N. J.
Professor of Biology, Princeton University

Isaac Baum Connor U 1908 Pittsburgh, Pa.
Salesman, Indian Refining Company

John Sebastian Conway U 1900 Washington, D. C.
Chief Engineer, U. S. Lighthouse Service

Carson Coover U 1909 Harrisburg, Pa.
Physician

Thomas Darlington Cope F 1908 Philadelphia, Pa.
Instructor in Physics, University of Pennsylvania

Edward Foulke Corson U 1906 Cynwyd, Pa.
Physician

John Lawrence Costello U 1910 Philadelphia, Pa.
Instructor in Civil Engineering, University of Pennsylvania

Edwin Schofield Crawley CF 1900*† Philadelphia, Pa.
Professor of Mathematics, University of Pennsylvania

Paul Philippe Cret F 1904† Philadelphia, Pa.
Professor of Design, University of Pennsylvania

Walter Lewis Croll U 1911 Philadelphia, Pa.
Physician, Howard Hospital

Walter Stilwell Crowell U 1911 Philadelphia, Pa.
Research Chemist, S. S. White Dental Manufacturing Company

Charles Aaron Culver G 1906 Beloit, Wis.
Professor of Physics, Beloit College

Franklin Miles Day A 1910 Philadelphia, Pa.

Lyn Waller Deichler F 1910 Philadelphia, Pa.
Physician

George Edmund de Schweinitz F 1910 Philadelphia, Pa.
Professor of Ophthalmology, University of Pennsylvania

Samuel Jackson Dickey U 1904 Philadelphia, Pa.
Engineer, United Gas Improvement Company

Chester Edward Dimick F 1906 New London, Conn.
Instructor of Cadets in Mathematics, U. S. Revenue Cutter Service

Gideon Stanhope Dodds G 1909 (Colorado G 1905) Columbia, Mo.
Instructor in Zoology, University of Missouri

Arthur Knox Doig U 1901 Nyack, N. Y.
Physician

Henry Herbert Donaldson F 1906*† (Chicago CF 1903) Philadelphia, Pa.
Professor of Neurology, Wistar Institute

Charles Leander Doolittle CF 1900*† Philadelphia, Pa.
Professor of Astronomy, University of Pennsylvania

Eric Doolittle F 1900*† Philadelphia, Pa.
Assistant Professor of Astronomy, University of Pennsylvania

Rae Shepard Dorsett U 1900 Philadelphia, Pa.
Associate Professor of Medicine, Temple University

Ardrey Whiddin Downs U 1904 Philadelphia, Pa.
Associate Professor of Physiology, Temple University

Arthur Wayland Dox U 1904 (Yale G 1908) Ames, Ia.
Chemist, Iowa State College, Agricultural Experiment Station

William Easby, Jr F 1900 (Rensselaer U 1890) Philadelphia, Pa.
Professor of Municipal Engineering, University of Pennsylvania

Burton Scott Easton G 1900* Nashotah, Wis.
Professor of New Testament Exegesis, Nashotah House

William Hastings Easton U 1900 Pittsburgh, Pa.
Advertising Manager, Westinghouse Electric and Manufacturing Company

William Clarence Ebaugh G 1901* Salt Lake City, Utah
Professor of Chemistry, University of Utah

Frederick William Eckfeldt U 1903 Philadelphia, Pa.
Assistant Superintendent, John T. Lewis and Brothers Company

Engelhardt August Eckhardt U 1908 Philadelphia, Pa.
Instructor in Physics, Morgan Laboratory, University of Pennsylvania

David Linn Edsall F 1908*† St. Louis, Mo.
Professor of Medicine, Washington University

Henry Edward Ehlers U 1900 Philadelphia, Pa.
Professor of Experimental Engineering, University of Pennsylvania

Frederick Ehrenfeld F 1900* Philadelphia, Pa.
Assistant Professor of Mineralogy, University of Pennsylvania

Robert Howard Eisenbrey U 1903 Philadelphia, Pa.
Consulting Engineer, Emory and Eisenbrey

Eldridge Lyon Eliason U 1905 Philadelphia, Pa.
Surgeon, University of Pennsylvania Hospital

Huger Elliott F 1901 Providence, R. I.
Director, Rhode Island School of Design

John Thompson Emlen U 1904 Philadelphia, Pa.
Secretary and Treasurer, Armstrong Association of Philadelphia

Charles Tyndall Evans G 1900 Pottstown, Pa.
Teacher of Physics and Chemistry, The Hill School

Henry Brown Evans F 1900* Philadelphia, Pa.
Professor of Mathematics, University of Pennsylvania

Henry Sebastian Evans U 1907 West Chester, Pa.

Owen Brooks Evans U 1900 Philadelphia, Pa.
With United Gas Improvement Company

Franz Frederick Exner G 1903* Northfield, Minn.
Professor of Chemistry, Carleton College

Howard Blaine Eynon U 1910 Cleveland, Ohio
Chemist, National Carbon Company

James Dobbin Faires U 1901 Philadelphia, Pa.
Civil Engineer and Superintendent, River and Harbor Improvement Company

Horace West Fairlamb, Jr U 1908 Fort Collins, Col.
Young Men's Christian Association

Charles Falkowsky, Jr U 1901 Scranton, Pa.
Physician

George Fetterolf F 1910 Philadelphia, Pa.
Demonstrator of Anatomy, University of Pennsylvania

Benjamin Franklin Finkel G 1906*† Springfield, Mo.
Professor of Mathematics and Physics, Drury College

George Egbert Fisher F 1903* Philadelphia, Pa.
Professor of Mathematics, University of Pennsylvania

Henry Donald Fisher U 1904 Boston, Mass.
Chemical Expert and Engineer

Edmund Joseph Fitzmaurice U 1910 Philadelphia, Pa.

William John Fitzmaurice, Jr U 1907 Philadelphia, Pa.

Moyer Springer Fleisher U 1907 St. Louis, Mo.
Assistant, Barnard Free Skin and Cancer Hospital

Simon Flexner F 1900*† New York City
Director of Laboratories, Rockefeller Institute for Medical Research

Frank Richards Ford A 1910 New York City
Ford, Bacon and Davis, Engineers

Benjamin Fox U 1911 Philadelphia, Pa.

Henry Fox G 1900 Collegeville, Pa.
Professor of Biology, Ursinus College

John Frazer F 1908 Philadelphia, Pa.
Assistant Professor of Chemistry, University of Pennsylvania

Charles Harrison Frazier F 1910 Philadelphia, Pa.
Professor of Clinical Surgery, University of Pennsylvania

George Clausen Friend U 1900 Philadelphia, Pa.
Superintendent, D. B. Martin Company

Walter Herbert Fulweiler U 1900 Philadelphia, Pa.
Department of Tests, United Gas Improvement Company

Frederick Parker Gay F 1902 Berkeley, Cal.
Professor of Pathology, University of California

Henry Gebhart U 1904 Dayton, Ohio
Superintendent, Oakwood Street Railway Company

Arthur Edwin Geiger U 1908 Klamath Falls, Ore.
Irrigation Engineer

Charles Herbert Gerhard U 1905 Reading, Pa.
Physician

James Rieser Gerhard U 1901 Reading, Pa.
Physician

George Washington Geyer U 1902 Cape May Court House, N. J.

John Joseph Gilbert U 1909 Chicago, Ill.
Student, University of Chicago

Nathaniel Gildersleeve G 1901 Philadelphia, Pa.
Associate in Bacteriology, University of Pennsylvania

Arthur Bruce Gill U 1905 Philadelphia, Pa.
Widener Men's Hospital

Stephen Kirk Gillam U 1908
(Deceased 1908)

Samuel Howard Gilliland U 1904 Philadelphia, Pa.
Director, Health Laboratories of Pennsylvania

James Gillinder F 1902 Philadelphia, Pa.
Chemist, Gillinder and Sons, Inc.

Francis Hopkinson Gilpin U 1904 Philadelphia, Pa.
Chemist, United Gas Improvement Company

Oliver Edmunds Glenn G 1904 Philadelphia, Pa.
Assistant Professor of Mathematics, University of Pennsylvania

William Beans Goentner U 1901 New York City
Assistant Engineer, Department of Water Supply, Gas and Electricity

Jacob Samuel Goldbaum U 1908 Philadelphia, Pa.
Research Chemist, Fels and Company

Albert Theodore Goldbeck U 1906 Easton, Pa.
Instructor in Civil Engineering, Lafayette College

Paul Eckert Good U 1902 Philadelphia, Pa.
Assistant Secretary, Southwork Foundry and Machine Company

Arthur Willis Goodspeed CF 1900*† Philadelphia, Pa.
Professor of Physics, University of Pennsylvania

Harold Goodwin, Jr U 1908 Philadelphia, Pa.
Assistant Superintendent, Philadelphia Electric Company

Joseph Hugh Goodwin U 1905 Fremont, Ohio
Chemical Engineer, National Carbon Company

George Byron Gordon F 1907 Philadelphia, Pa.
Director of University Museum, University of Pennsylvania

George Fay Gracey U 1902 Austin, Tex.
Professor of Chemistry, University of Texas

John Howard Graham U 1902 Philadelphia, Pa.
Professor of Chemistry, Central High School

Robert Lochead Gray U 1904 Philadelphia, Pa.
Physician

Herlwyn Ruggles Green U 1903 Tacoma, Wash.
Physician

Arthur Maurice Greene, Jr F 1900* (Missouri CF 1905) Troy, N. Y.
Professor of Mechanical Engineering, Rensselaer Polytechnic Institute

Milton Jay Greenman F 1906*† Philadelphia, Pa.
Director, Wistar Institute, University of Pennsylvania

Arthur Main Gregory U 1906 Pencoyd, Pa.
American Bridge Company

Elisha Hall Gregory F 1902† (Northwestern CF 1906) Munich, [Germany

William Edward Groben U 1904 Philadelphia, Pa.
Architect, Department of Public Works

William Garrett Grove U 1909 New York City
Assistant Engineer, American Bridge Company

Don Carlos Guffey U 1905 Lawrence, Kan.
Professor of Obstetrics, University of Kansas

Roy Dykes Hall G 1904 (Wisconsin CF 1906) Bloomfield, N. J.
With Westinghouse Lamp Company

William Charles Hall U 1901 Allegheny, Pa.
Physician

George Hervey Hallett F 1900* Philadelphia, Pa.
Professor of Mathematics, University of Pennsylvania

Ulysses Sherman Hanna G 1900* (Indiana F 1905) Bloomington, Ind.
Associate Professor of Mathematics, Indiana University

Wilmer Crooks Hanson U 1909 New York City
Engineer

John Frederick Harbeson U 1910 Philadelphia, Pa.

Willett Lepley Hardin F 1900*† Mt. Washington, Los Angeles, Cal.

Melvin Reese Harkins F 1909 Philadelphia, Pa.
Instructor in Physics, University of Pennsylvania

Daniel Roberts Harper, 3rd U 1905 Washington, D. C.
Scientist, Bureau of Standards

Charles Custis Harrison A 1910 Philadelphia, Pa.

John William Harshberger F 1904*† Philadelphia, Pa.
Professor of Botany, University of Pennsylvania

William Gibbons Harskeeper U 1903 Bloomfield, N. J.
Engineer, Westinghouse Lamp Company

Joseph Hall Hart F 1904 Cincinnati, Ohio

Isaac Harter, Jr U 1901 Barberton, Ohio
Superintendent, Barberton Works, Babcock and Wilson Company

Burt Laws Hartwell G 1903*† Kingston, R. I.
Chemist, Rhode Island State College

Edmund Newton Harvey U 1909 Princeton, N. J.
Instructor in Physiology, Princeton University

William Peter Haseman G 1907 (Indiana F 1905) Norman, Okla.
Professor of Physics, University of Oklahoma

Shinkishi Hatai F 1908 (Chicago CF 1903) Philadelphia, Pa.
Associate in Neurology, Wistar Institute

Charles James Hatfield U 1900 Philadelphia, Pa.
Physician to White Haven Sanatorium

Charles Elvin Haupt, Jr U 1905 Washington, D. C.
Architectural Draftsman

Thaddeus Leon Euclid Haupt U 1907 San Francisco, Cal.
Engineer, Union Iron Works Company

Philip Bovier Hawk F 1904 (Columbia G 1903) Urbana, Ill.
Professor of Physiological Chemistry, University of Illinois

William Faithful Hendrickson F 1902
(Deceased 1903)

Joseph Samuel Hepburn U 1907 Washington, D. C.
Scientific Assistant in Chemistry, U. S. Food Research Laboratory

Carl Hering A 1910 Philadelphia, Pa.

Rudolph Hering A 1910 New York City

J Leon Herman U 1909 Philadelphia, Pa.
Physician, German Hospital

Charles John Hexamer A 1910 Philadelphia, Pa.

Cassius Eugene Hiatt G 1908 (Indiana G 1906) Bloomfield, N. J.
Westinghouse Lamp Company

Joel Henry Hildebrand U 1903 Philadelphia, Pa.
Instructor in Chemistry, University of Pennsylvania

Fanny Rysam Mulford Hitchcock A 1910 Warwick, N. Y.

Walter Andrew Hitchcock U 1910 South Bend, Ind.
Chief Engineer, Chicago, South Bend and Northern Indiana Railway Company

William Frank Hitchens U 1909 Philadelphia, Pa.

Raymond Mason Hobbs U 1906 Chicago, Ill.
Draftsman, Frost and Granger, Architects

Arthur Holmes F 1910 Philadelphia, Pa.
Assistant Professor of Psychology, University of Pennsylvania

Gerald Anderson Holmes U 1908 New York City
Architect with McKim, Mead and White

Robert Harbison Hough G 1905 Philadelphia, Pa.
Assistant Professor of Physics, University of Pennsylvania

William Jarrett H Hough U 1911 Ambler, Pa.
Studying Architecture in Europe

Thomas Hovenden U 1903 Philadelphia, Pa.

Walter Freeman Hovey U 1909 New York City
Engineer with J. G. White and Company, Inc.

Carl Eugene Howell U 1905 Columbus, Ohio
Architect, Howell and Thomas, Architects

John Ezra Hoyt G 1906 Philadelphia, Pa.
Instructor in Physics, Drexel Institute

George Augustus Huggins U 1902 Philadelphia, Pa.
Actuary

Henry Sheafe Hutchinson U 1907
(Deceased 1907)

Edward Lovering Ingram F 1908* Philadelphia, Pa.
Professor of Railroad Engineering and Goedesy, University of Pennsylvania

Frederick Merwin Ives U 1900 New York City
Assistant Visiting Surgeon, Columbus Hospital

Herbert Eugene Ives U 1905 Cleveland, Ohio
Physicist, National Electric Lamp Association

Howard Chapin Ives F 1904*† (Worcester CF 1908) Worcester, [Mass.
Assistant Professor of Railroad Engineering, Worcester Polytechnic

Merkel Henry Jacobs U 1905 Philadelphia, Pa.
Instructor in Zoology, University of Pennsylvania

Michael William Jacobs, Jr U 1907 Hamburg, Pa.

Nelson Wilson Janney U 1906 Munich, Germany
Student of Medicine

Herbert Spencer Jennings F 1905 Baltimore, Md.
Professor of Zoology, Johns Hopkins University

Jonathan Jones U 1905 Pottstown, Pa.
Designer, McClintic-Marshall Construction Company

Thomas Barnett Lewis Jordan U 1900 Philadelphia, Pa.
Physician

Dicran Hadjy Kabakjian G 1909 Philadelphia, Pa.
Instructor in Physics, University of Pennsylvania

Alfred Lewis Kammerer G 1902 St. Louis, Mo.
Consulting Timber Engineer, Von Schrenk and Kammerer

David Kapp U 1905 Philadelphia, Pa.
Physician, Jewish Hospital

Walter Thompson Karcher U 1901 Philadelphia, Pa.
Architect

Howard Thomas Karsner F 1911 Boston, Mass.
Assistant Professor of Pathology, Harvard Medical School

Raymond Humphrey Keil U 1909 Chicago, Ill.
Commonwealth Edison Company

Allen Meredith Kerr U 1906 Pittsburgh, Pa.
Physician

Harry F Keller A 1910 Philadelphia, Pa.

Benjamin Witt Key U 1909 New York City
Physician, New York Eye and Ear Infirmary, Bellevue Medical College

Ernest Louis Alexander Kiesel U 1901 Scranton, Pa.
Physician

Edward Cameron Kirk F 1910 Philadelphia, Pa.
Dean of Dental Faculty, University of Pennsylvania

Donald Morris Kirkpatrick U 1911 Easton, Pa.

Fred Harlen Klaer U 1904 Philadelphia, Pa.
Physician, Instructor in Medicine, University of Pennsylvania

Henry Jacob Klaer U 1909 Chester, Pa.
Chemist, American Steel Foundries

Kenneth Ralph Knapp U 1911 Gwynedd, Pa.
Cadet Engineer, United Gas Improvement Company

Samuel Stryker Kneass A 1910 Philadelphia, Pa.
University Club

George Simpson Koyl U 1909 Philadelphia, Pa.
Assistant in Architecture, University of Pennsylvania

Louis Krautter, Jr F 1908
(Deceased 1909)

Herbert Guy Kribs G 1907 Philadelphia, Pa.
Instructor in Zoology, University of Pennsylvania

Edward Bell Krumbhaar U 1908 Philadelphia, Pa.
Assistant Instructor in Medicine, University of Pennsylvania

Walter Laib U 1911 Philadelphia, Pa.
Chemical Engineer

Warren Powers Laird CF 1900† Philadelphia, Pa.
Professor of Architecture, University of Pennsylvania

Walter Davis Lambert G 1909 Philadelphia, Pa.
Instructor in Mathematics, University of Pennsylvania

George Paul La Roque U 1902 Richmond, Va.
Associate Professor of Surgery, University of Virginia College of Medicine

William Thomas Leggo U 1903 Philadelphia, Pa.
Instructor in Civil Engineering, University of Pennsylvania

Simon Levy U 1903 Philadelphia, Pa.
Chemist, Quaker City Rubber Company

Paul Adin Lewis U 1904 Philadelphia, Pa.
Assistant Professor of Pathology, Phipps Institute, University of Pennsylvania

Seth Andrew Light U 1904 Lebanon, Pa.
Physician

William Linker U 1904 Philadelphia, Pa.
Contracting Engineer

Thomas Robinson Little U 1900 Greensboro, N. C.
Physician and Medical Director, Southern Life and Trust Company

Morton Githens Lloyd G 1900* Chicago, Ill.
Technical Editor, Electrical Review

Leo Loeb F 1907* St. Louis, Mo.
Physician, Barnard Free Skin and Cancer Hospital

Jacob Loewenstein U 1902 New York City
Assistant Engineer, American Bridge Company

William Shannon Lohr U 1909 Philadelphia, Pa.
Instructor in Civil Engineering, University of Pennsylvania

Paul R Loos U 1907 Philadelphia, Pa.

Louis Henry Losse U 1904 St. Louis, Mo.
Assistant Engineer, U. S. Geological Survey, Materials Testing Laboratory

Albert Kienzle Ludy U 1903 Flemington, N. J.
Engineer

David Lincoln Luke A 1910 New York City
Vice-President, West Virginia Pulp and Paper Company

Frederic Bowers Lysle U 1906 Philadelphia, Pa.
With Barrett Manufacturing Company

John Muirhead Macfarlane CF 1900*† Philadelphia, Pa.
Professor of Botany, University of Pennsylvania

Charles Smick Mackay, Jr U 1901 Easton, Pa.
Chemist, Vulcanite Portland Cement Company

William Humphrey Mackinney U 1903 Philadelphia, Pa.
Physician, Instructor in Medicine, University of Pennsylvania

Paul Budd Magnuson U 1908 Chicago, Ill.
Physician, Instructor in Surgery, Rush Medical College

Frederick Maynard Mann F 1900 (Illinois F 1910) Urbana, Ill.
Head of Architectural Department, University of Illinois

Edward Ellsworth Marbaker U 1910 Bloomfield, N. J.
With Westinghouse Electric Company

Edgar Marburg CF 1900† Philadelphia, Pa.
Professor of Civil Engineering, University of Pennsylvania

Walter Ross Marriott G 1908 (Indiana U 1906) Swarthmore, Pa.
Assistant Professor of Mathematics, Swarthmore College

John Marshall CF 1900*† Philadelphia, Pa.
Professor of Chemistry and Toxicology, University of Pennsylvania

Stewart McCulloch Marshall U 1900 Johnstown, Pa.
Assistant Chief Engineer, Cambria Steel Company

Edward Martin F 1910 Philadelphia, Pa.
Professor of Clinical Surgery, University of Pennsylvania

Louis Herbert Maxson U 1910 Seattle, Wash.

Daniel Josef McCarthy F 1901 Philadelphia, Pa.
Professor of Medical Jurisprudence, University of Pennsylvania

William McClellan U 1900* Albany, N. Y.
Consulting Engineer, Public Service Commission

Jesse Francis McClendon G 1905* (Missouri F 1907) New York City
Instructor in Embryology, Cornell Medical College

Andrew Todd McClintock U 1911 Wilkes-Barre, Pa.
Physician, Wilkes-Barre City Hospital

Thomas Potter McCutcheon, Jr U 1903 Philadelphia, Pa.
Assistant Professor of Chemistry, University of Pennsylvania

Claude Stonecliffe McGinnis G 1911 Fredericton, N. B.
Professor of Physics, University of New Brunswick

Henry Kerr McGoodwin F 1902 Pittsburgh, Pa.
Assistant Professor of Architecture, Carnegie Technical School

Norman Eugene McIndoo G 1910 (Indiana G 1908) Washington, D. C.
Assistant, Bureau of Entomology

Frank Eugene McKee U 1900 Muskegon, Mich.
Assistant Manager, Shaw Electric Crane Company

Guy Hale McKinstry U 1910 Philadelphia, Pa.
Physician, Medical Department University of Pennsylvania

Aaron Merzbacher U 1900 Irondale, Wash.
Western Steel Corporation

John Franklin Meyer G 1903* Bloomfield, N. J.
Physical Engineer, Westinghouse Lamp Company

William Shainline Middleton U 1911 Philadelphia, Pa.

David Isaac Miller U 1901 Harrisburg, Pa.
Physician

Henry Blackburn Miller U 1908 Rossville, Kan.
Physician

Sarah Pleis Miller A 1910 Philadelphia, Pa.

Charles Karsner Mills F 1910 Philadelphia, Pa.
Professor of Neurology, University of Pennsylvania

Coleman Sellers Mills U 1902 Philadelphia, Pa.
Architects, Mills and VanKirk

William Ossian Milton U 1902 Franklin, Pa.
Electrical Engineer, Chicago Pneumatic Tool Company

Lewis Ferry Moody U 1901 Troy, N. Y.
Assistant Professor of Mechanical Engineering, Rensselaer Polytechnic

John Percy Moore F 1900*† Philadelphia, Pa.
Professor of Zoology, University of Pennsylvania

Randal Morgan A 1910 Philadelphia, Pa.
With United Gas Improvement Company

Max Philip Morrison U 1906 Trenton, N. J.
With Trenton Iron Company

Jay Bird Moyer F 1900 Philadelphia, Pa.
Professor of Chemistry and Metallurgy, Penn College of Dental Surgery

John Hughes Müller G 1910 Philadelphia, Pa.
Instructor in Chemistry, University of Pennsylvania

John Raymond Murlin G 1900* New York City
Assistant Professor of Physiology, Cornell University Medical School

Lewis Irving Neikirk G 1903* (Illinois F 1906) Seattle, Wash.
Instructor in Mathematics, University of Washington

James Allen Nelson F 1905* Washington, D. C.
Scientist, U. S. Bureau of Entomology

Harry Newmayer U 1911

Karl Nibecker F 1909 Pittsburgh, Pa.
Pittsburgh Representative, Southwark Foundry and Machine Company

Verner Nisbet F 1905 Kansas City, Mo.
With American Biologic Company

Thomas Nolan F 1901 Philadelphia, Pa.
Professor of Architecture, University of Pennsylvania

Arthur Miller Northrup U 1902 Ashley, Pa.
Physician

John Budd Nutt U 1911 Philadelphia, Pa.
Physician, University of Pennsylvania Hospital

Thornton Oakley U 1902 Philadelphia, Pa.
Artist

Charles Malden Oman U 1901 Brooklyn, N. Y.
Surgeon, U. S. Naval Hospital

Alexander Hay O'Neal U 1905 Wayne, Pa.
Physician

Charles Francis Osborne F 1904 (Cornell F 1887) Philadelphia, Pa.
Professor of History of Architecture, University of Pennsylvania

Louis O'Shaughnessy F 1909 Philadelphia, Pa.
Instructor in Mathematics, University of Pennsylvania

Harry Ottinger U 1905 Johnstown, Pa.
With Cambria Steel Company

George Whitney Outerbridge U 1907 Philadelphia, Pa.
Physician

Edward Asa Partridge A 1910 Philadelphia, Pa.

Carl Van Schaick Patterson U 1911 Philadelphia, Pa.
Chemical Engineer

Richard Mills Pearce, Jr F 1902*† Philadelphia, Pa.
Professor of Medicine, University of Pennsylvania

Leonard Pearson CF 1900*† (Cornell U 1888)
(Deceased 1909)

Ralph Pemberton F 1910 Philadelphia, Pa.
Assistant Instructor in Chemistry, University of Pennsylvania

Mary Engle Pennington A 1910 Washington, D. C.
Scientist, Bureau of Chemistry

Charles Bingham Penrose A 1910 Philadelphia, Pa.

William Pepper F 1908 Philadelphia, Pa.
Assistant Professor of Clinical Pathology, University of Pennsylvania

Frank Edson Perkins F 1901 New York City
Architect

Everett Franklin Phillips G 1904* Washington, D. C.
Scientist, U. S. Bureau of Entomology

George Arthur Piersol F 1900*† Philadelphia, Pa.
Professor of Anatomy, University of Pennsylvania

George Morris Piersol U 1902 Philadelphia, Pa.
Physician, Instructor in Medicine, University of Pennsylvania

Lewis Frederick Pilcher F 1900 Poughkeepsie, N. Y.
Professor of Art, Vassar College

Robert Mackey Pitts U 1910 Riverside, N. J.
Engineer, Riverside Traction Company

Haviland Hull Platt U 1909 Philadelphia, Pa.
With Fels-Naptha Soap Company

George William Plummer G 1910 Philadelphia, Pa.
Instructor in Chemistry, University of Pennsylvania

Edward Pollitt U 1907 Pencoyd, Pa.
With American Bridge Company

Frank Ethelwulf Powers U 1908 Pottsville, Pa.
Engineer, Eastern Steel Company

Clyde Beethoven Pyle U 1911 Philadelphia, Pa.
Instructor in Civil Engineering, University of Pennsylvania

Snowden Bayard Redfield U 1902 Phillipsburg, N. J.
Engineer of Tests, Ingersoll-Rand Company

Martin Emil Rehfuss U 1909 Paris, France
Resident Physician, American Hospital of Paris

Edward Tyson Reichert F 1910 Philadelphia, Pa.
Professor of Physiology, University of Pennsylvania

Homer Jonas Rhode U 1901 Reading, Pa.
Physician, Reading Hospital

Horace Clark Richards F 1900* Philadelphia, Pa.
Professor of Physics, University of Pennsylvania

William Waddell Richardson U 1902 Norristown, Pa.
Chief Physician, State Hospital for Insane

Webster Luther Rieser U 1910 Philadelphia, Pa.
Instructor in Mechanical Engineering, University of Pennsylvania

David Riesman F 1910 Philadelphia, Pa.
Assistant Professor of Medicine, University of Pennsylvania

Damaso Rivas F 1911 Philadelphia, Pa.
Assistant Director of Laboratory of Tropical Medicine, University of Pennsylvania

George Chapin Robeson U 1910 Atlanta, Ga.
Instructor, Georgia School of Technology

Howard Needham Robinson U 1901 Lawrenceville, Ill.
Chemist

George Ward Rockwell G 1900 Philadelphia, Pa.
Student in Medicine, University of Pennsylvania

Allen Rogers G 1902 Brooklyn, N. Y.
In Charge of Industrial Chemistry, Pratt Institute

Frank Henkels Rogers U 1906 Philadelphia, Pa.
Mechanical Engineer, I. P. Morris Company

Edward Chapin Romine U 1910 Harrisburg, Pa.
Special Industrial Representative, United Gas Improvement Company

George Rosengarten U 1908 Philadelphia, Pa.
Instructor in Science, Central Manual Training School

George David Rosengarten A 1910 Philadelphia, Pa.

Walter Edward Rosengarten U 1911 Philadelphia, Pa.
Instructor in Civil Engineering, University of Pennsylvania

Joseph Rosin U 1909 Philadelphia, Pa.
Chemist, Powers, Weightman, Rosengarten Company

Samuel Holcomb Ross U 1903 Omaha, Neb.
Chemist

William Lee Rowland A 1910 Philadelphia, Pa.

Samuel Archer Rulon, Jr U 1909 Phoenixville, Pa.
Physician, Phoenixville Hospital

Thomas Arthur Rutherford U 1907 (Illinois G 1907) Clarks Summit, Pa.
Physician, Hillside Home

Frederick Hollister Safford F 1904* Philadelphia, Pa.
Assistant Professor of Mathematics, University of Pennsylvania

Walter Samans U 1905 Greenville, Pa.
Assistant Engineer, Bessemer and Lake Erie Railroad

Charles Lawrence Sargent G 1900 Newark, N. J.
Chemist, Murphy Varnish Company

Albert Carl Sautter U 1900 Philadelphia, Pa.
Physician

Gordon Joel Saxon U 1908 Philadelphia, Pa.
Physician

Harry Abraham Schatz U 1905 Philadelphia, Pa.
First Assistant in Bacteriology, University of Pennsylvania

Hugo Schlatter U 1904 Pittsburgh, Pa.
Chemist, U. S. Geological Survey

Howard Gustav Schleiter U 1905 Pittsburgh, Pa.
Physician

Adolph William Schramm F 1902 Philadelphia, Pa.
President, Electro Dental Manufacturing Company

William Magill Schultz U 1905 Tsinan, Shantung, China
Physician

Henry Arthur Schwab F 1910 Pittsburgh, Pa.
Instructor in Architecture, Carnegie Technical Schools

Isaac Joachim Schwatt F 1900*† Philadelphia, Pa.
Professor of Mathematics, University of Pennsylvania

Alfred Newlin Seal A 1910 Germantown, Philadelphia, Pa.

Horace Wells Sellers A 1910 Ardmore, Pa.

Franklin Heverin Shakespeare U 1901 New York City
With the Carter Fire Ball Company

Owen Louis Shinn, Jr F 1901* Philadelphia, Pa.
Assistant Professor of Chemistry, University of Pennsylvania

Barton Presley Sibole U 1911 Buffalo, N. Y.
Machinist, Pierce-Arrow Motor Car Company

Jacob George Silverman U 1904 Philadelphia, Pa.
Physician

Fred Lester Simon U 1911 Philadelphia, Pa.

Edgar Arthur Singer, Jr F 1902* Philadelphia, Pa.
Professor of Philosophy, University of Pennsylvania

Francis Wharton Sinkler U 1900 Philadelphia, Pa.
Physician

James Mortimer Skinner U 1911 Philadelphia, Pa.

Allen John Smith F 1905*† Philadelphia, Pa.
Professor of Pathology, University of Pennsylvania

Arthur Thomas Smith U 1906 Philadelphia, Pa.
Draftsman

Burnett Smith F 1904* (Syracuse F 1907) Syracuse, N. Y.
Assistant Professor of Geology, Syracuse University

Charles Meldrum Smith U 1910 Washington, D. C.
Assistant Chemist, Bureau of Chemistry, Department of Agriculture

Edgar Fahs Smith CF 1900*† Philadelphia, Pa.
Professor of Chemistry, University of Pennsylvania

Francis Palmer Smith U 1907 Atlanta, Ga.
Professor of Architecture, Georgia School of Technology

George Lathrop Smith U 1908 Philadelphia, Pa.

Livingston Smith U 1901 Philadelphia, Pa.
Architect, Karcher and Smith

Ralph Ogden Smith G 1905 New Brunswick, N. J.
Associate Professor of Chemistry, Rutgers College

Stanley Smith U 1910 Pottstown, Pa.
Designer, McClintic-Marshall Construction Company

William Jones Smith U 1903 Chicago, Ill.
Architect

Henry Wilson Spangler F 1904*† Philadelphia, Pa.
Professor of Mechanical Engineering, University of Pennsylvania

Christian George Spoerl U 1903 Philadelphia, Pa.
Architect

J Verne Stanford F 1904 Philadelphia, Pa.
Assistant Professor of Mechanical Engineering, University of Pennsylvania

William Parvin Starr U 1905 Havre de Grace, Md.
Transitman, Baltimore and Ohio Railroad

John Barr Stauffer G 1909 Philadelphia, Pa.
Graduate Student in Mathematics, University of Pennsylvania

Carl Rossow Steinke U 1909 Rochester, Minn.
Physician, St. Mary's Hospital

Alfred Stengel F 1910 Philadelphia, Pa.
Professor of Clinical Medicine, University of Pennsylvania

Harry Sternfeld U 1911 Philadelphia, Pa.

Colin Campbell Stewart F 1904* Hanover, N. H.
Professor of Physiology, Dartmouth College

Lever Flegel Stewart U 1910 Clearfield, Pa.

George William Stimson U 1903 Pittsburgh, Pa.
Physician

George Flowers Stradling G 1902*† Philadelphia, Pa.
Head of Department of Science, Northeast Manual Training High School

Charles Gunnison Strickland U 1903 Erie, Pa.
Physician

Frank Macy Surface G 1906 (Ohio U 1905) Lexington, Ky.
Biologist, Agricultural Experiment Station

Charles Joseph Swalm U 1906 Norristown, Pa.
Resident Physician, State Hospital for Insane

Orland Russell Sweeney F 1910 (Ohio U 1909) Philadelphia, Pa.
Instructor in Chemistry, University of Pennsylvania

Joshua Edwin Sweet G 1902 Philadelphia, Pa.
Assistant Professor of Experimental Surgery, University of Pennsylvania

Walter Thomas Taggart G 1900 Philadelphia, Pa.
Assistant Professor of Chemistry, University of Pennsylvania

Granville Lewis Taylor U 1900 Pittsburgh, Pa.
Assistant Chief Engineer, McClintic-Marshall Construction Company

Thomas Maynard Taylor G 1900*
(Deceased 1907)

William Purves Taylor U 1900 Philadelphia, Pa.
Engineer, Municipal Testing Laboratory

Arthur Linville Terry, Jr U 1900 Philadelphia, Pa.
Filtration Engineer, Hungerford and Terry

Nathaniel Wiley Thomas A 1910 Philadelphia, Pa.

Howard Earle Tomlinson U 1911 St. Davids, Pa.

Oscar Noel Torian U 1900 Indianapolis, Ind.
Physician

Charles Travis U 1902 Philadelphia, Pa.
Instructor in Mineralogy, University of Pennsylvania

Henry William Troelsch U 1907 Philadelphia, Pa.
Instructor in Civil Engineering, University of Pennsylvania

Spencer Trotter A 1910 Swarthmore, Pa.
Professor of Biology, Swarthmore College

William Gray Turnbull U 1906 Philadelphia, Pa.
Physician, Instructor in Medicine, University of Pennsylvania

Lucius Tuttle F 1908 (Yale U 1901) Philadelphia, Pa.
Physician and Demonstrator of Physiology, University of Pennsylvania

Edwin Burket Twitmyer F 1904* Philadelphia, Pa.
Assistant Professor of Psychology, University of Pennsylvania

Frederick Maria Urban G 1907 Philadelphia, Pa.
Professor of Psychology, University of Pennsylvania

Walter Kurt Van Haagen U 1905 Atlanta, Ga.
Professor of Chemistry, Georgia School of Technology

Jean Jacques Abram Van Kaathoven U 1902 Los Angeles, Cal.
Physician

Frank Russell Van Loon U 1911 Philadelphia, Pa.
Engineer, F. W. Van Loon, Contractor and Builder

Edward Bright Vedder U 1902* Washington, D. C.
Captain Medical Corps, U. S. Army

Borden Smith Veeder U 1907 St. Louis, Mo.
Instructor in Pediatrics, Washington University

Samuel Tobias Wagner A 1910 Germantown, Philadelphia, Pa.

Jesse Pusey Walton U 1910 Pittsburgh, Pa.
Draftsman, Pennsylvania Lines

Joseph Barnard Walton U 1905 New York City
Secretary, Young Men's Christian Association, Intercollegiate Branch

Charles Laurence Warwick U 1909 Philadelphia, Pa.
Instructor in Civil Engineering, University of Pennsylvania

Cassius Hinds Watson U 1901 Brooklyn, N. Y.
Instructor in Biology, Pratt Institute

Walter Loring Webb F 1900† Philadelphia, Pa.
Chief Consulting Engineer, Day and Zimmerman

George Smedley Webster A 1910 Philadelphia, Pa.

John Morris Weiss U 1905 Philadelphia, Pa.
Laboratory of Hygiene, University of Pennsylvania

Frank Wenner F 1907 Washington, D. C.
Assistant Physicist, U. S. Bureau of Standards

Calvin Naftzinger Wenrich G 1910 Pittsburgh, Pa.
University of Pittsburgh

William Carter Wescott U 1908 Atlantic City, N. J.
Physician, City Hospital

George Hazzard West U 1904 Globe, Ariz.
Chemist, Old Dominion Copper Company

Bayee Newcomb Westcott U 1909 Schenectady, N. Y.
Engineer

Edgar Theodore Wherry U 1906 South Bethlehem, Pa.
Assistant Professor of Mineralogy, Lehigh University

William Berry Whetstone U 1903 Philadelphia, Pa.
Physician

Arthur Jennings White U 1911 Gloucester, N. J.
Assistant Chemist Welsbach Company

Philip Richardson Whitney F 1907 Philadelphia, Pa.
Assistant Professor of Graphics, University of Pennsylvania

Edward Embree Wildman G 1906 Philadelphia, Pa.
Professor of Biology, Central High School

Joseph Smith Wilds, Jr U 1905 Pottstown, Pa.
Structural Draftsman, McClintic-Marshall Construction Company

Samuel Borton Williams U 1901 Philadelphia, Pa.
Assistant Engineer, Pennsylvania Bell Telephone Company

Clarence Addison Willis G 1901 Philadelphia, Pa.
Professor of Mathematics, Girard College

Louis Albert Wills U 1909 Philadelphia, Pa.
Chemist, American Sugar Refining Company

Lightner Witmer F 1904*† Philadelphia, Pa.
Professor of Psychology, University of Pennsylvania

Clarence C Winterstein U 1910 Philadelphia, Pa.

Alfred Daniel Wolff, Jr U 1907 New York City
Assistant Engineer, New York Central and Hudson River Railroad

Henry Dunn Wood U 1904 Philadelphia, Pa.

George Jesse Wright U 1904 Pittsburgh, Pa.
Physician

Levi Parker Wyman G 1902* Chester, Pa.
Professor of Chemistry, Pennsylvania Military College

Frederick Wynkoop U 1907 Philadelphia, Pa.
Analytical Chemist, Booth, Garrett and Blair

Rowland Lawrence Young U 1907 New York City
Engineer, American Telephone and Telegraph Company

Edward Herman Zieber U 1909 Philadelphia, Pa.

BROWN CHAPTER

Brown University, Providence, Rhode Island

Charter Date April 16, 1900 Chapter Installed, May 9, 1900

HISTORICAL SKETCH

Previous to the year 1900 Phi Beta Kappa was the only honorary society existing at Brown University. As candidates for the engineering degrees were not eligible to membership to Phi Beta Kappa at this University, it was felt by some members of the faculty that it would be desirable to establish an honorary scientific society at Brown University. Accordingly, on January 18, 1900, a meeting of members of the faculty engaged in teaching branches of pure and applied science was held at which the first tangible step was taken toward the formation of a chapter of Sigma Xi. On January 25, 1900, twenty-six members of the faculty petitioned for a charter and on May 9 were initiated as members of the Brown Chapter, by Professor H. S. Williams, of Yale University, President of the National Society of Sigma Xi. It has been impossible to locate the charter, so the date it was drawn cannot be given. [It is entered as stated in the official announcement on file.]

During the period from 1900 to 1908, inclusive, the Brown Chapter has elected five faculty members, fifteen alumni members, twenty-eight resident graduate members, and forty-seven undergraduate members.

The Brown Chapter has endeavored to promote the interests which it is the object of Sigma Xi to encourage, by discrimination in the election of members and by holding public and Chapter meetings at which scientific topics are discussed by investigators in various branches of research work.

A. H. B.

OFFICERS FOR 1911–12

President ..... William Herbert Kenerson
Vice-President ..... Charles Wilson Brown
Recording Secretary ..... Roland George Dwight Richardson
Corresponding Secretary ..... Ansel Brooks
Treasurer ..... Herbert Eugene Walter
Councilor ..... Albert DeForest Palmer

MEMBERSHIP ROLL

Jarvis Howard Alger U 1909 Pittsburgh, Pa.
Sales Department, Aluminum Company of America

John Howard Appleton CF 1900*† Providence, R. I.
Professor of Chemistry, Brown University

Paul Appleton U 1911 Boston, Mass.
Student, Harvard Medical School

Vahan Simon Babasinian G 1905 South Bethlehem, Pa.
Associate Professor Chemistry, Lehigh University

William Whitman Bailey CF 1900*† Providence, R. I.
Emeritus Professor of Botany, Brown University

Frederick Eugene Banfield U 1908 Newton Highlands, Mass.
Assistant Superintendent, Saco Pettee Company

Ernest Warren Barnes G 1902 Wickford, R. I.
Assistant Superintendent, Wickford Laboratory

Carl Barus CF 1900*† Providence, R. I.
Dean of Graduate Department, Professor of Physics, Brown University

Maxwell Barus U 1910 Cambridge, Mass.
Student, Harvard Law School

Frederick Steere Beattie U 1906 South Bethlehem, Pa.
Instructor in Chemistry, Lehigh University

Samuel Jacob Beeber U 1908 Westbrook, Me.
Head Science Department, Westbrook High School

Albert Arnold Bennett U 1910 Princeton, N. J.
Graduate Student, Princeton University

Charles Barrows Bennett U 1906 Burlington, Vt.
Instructor in Chemistry, University of Vermont

Arthur Horace Blanchard CF 1900 (Columbia CG 1903) New York City
Professor of Engineering, Columbia University

Frederick May Boyce U 1909 Andover, Mass.
Physics Instructor, Phillips Academy

Laura Cinderella Brant U 1909 Northampton, Mass.
Assistant in Physics, Smith College

Charles Lewis Brightman U 1909 South Hadley, Mass.
Instructor in Physics, Mt. Holyoke College

J Ansel Brooks F 1904 Providence, R. I.
Associate Professor of Mechanics, Brown University

Arthur Robert Brown U 1905 Panama, C. Z.
Isthmian Canal Company

Charles Wilson Brown G 1901* Providence, R. I.
Assistant Professor of Geology, Brown University

William Ward Browne G 1910 Providence, R. I.
Graduate Student, Brown University

John Emery Bucher F 1902* Providence, R. I.
Associate Professor of Organic Chemistry, Brown University

Hermon Carey Bumpus CF 1900*† Madison, Wis.
Business Manager, University of Wisconsin

John Wyman Miller Bunker G 1910 Cambridge, Mass.
Instructor in Chemistry, Harvard University

Alexander Manlius Burgess A 1906 Boston, Mass.
First Assitant in Pathology, Boston City Hospital

Edward Clifton Burnham CF 1900 Hopedale, Mass.
Designer, Draper Company

Frank Arthur Burr U 1905 Boston, Mass.
Engineer, Swift and Company

Ada Irene Burton G 1910 Providence, R. I.
Assistant, Physical Department, Brown University

Raymond Davis Cady G 1905 Bridgeport, Conn.
Chemist, Union Metallic Cartridge Company

Walter Cuyton Cady A 1901* Middletown, Conn.
Professor of Physics, Wesleyan University

William Hamlin Cady G 1905 Providence, R. I.
Colorist, Badische Company

Edwin Eddy Calder CF 1900 Providence, R. I.
Professor of Chemistry, Rhode Island College of Pharmacy

Robert Gamble Caswell U 1911 Providence, R. I.
Instructor in Chemistry, Brown University.

Arnold Buffum Chace A 1902* Providence, R. I.
Chancellor, Brown University

Edward Blanchard Chamberlain G 1901 Washington, D. C.
Teacher of Mathematics and German, University School

Robert Foster Chambers F 1911 Providence, R. I.
Graduate Assistant, Brown University

Horace Edward Chandler U 1906 (Cornell F 1907) Weihsien, Shantung,
In Charge of Department of Physics, Shantung Christian University [China

Charles Value Chapin A 1902† Providence, R. I.
Superintendent of Health, City of Providence

John Osborne Chesley U 1911 New Kensington, Pa.
Sales Department, Aluminum Company of America

Paul Franklin Clark G 1906 New York City
Assistant in Pathology and Bacteriology, Rockefeller Institute

Benjamin Franklin Clarke CF 1900*†
(Deceased 1908)

Harry Duffield Clough G 1909 Baltimore, Md.
Medical Student, Johns Hopkins University

George Ellett Coghill G 1901* Granville, Ohio
Professor of Zoology, Denison University

James Franklin Collins CF 1900† Providence, R. I.
Forest Pathologist, United States Bureau of Plant Industry

Howard Wilbur Congdon G 1906 New York City
Civil Engineer

Herbert Ray Connor U 1911 San Francisco, Cal.
Mechanical Engineer, Meese and Gottfried Company

Elmer Lawrence Corthell A 1901*† New York City
Consulting Engineer

Ernest Willard Crawley U 1901 New Haven, Conn.
Junior Engineer, United States Army

Moses Leverock Crossley G 1910 Liberty, Mo.
Associate Professor of Chemistry, William Jewell College

Clinton Harvey Currier G 1900 Providence, R. I.
Instructor in Mathematics, Brown University

Nelson Clark Dale G 1910 Providence, R. I.
Instructor in Geology, Brown University

Florence Harris Danielson G 1910 Cold Spring Harbor, L. I., N. Y.
Field Worker, Eugenics Record Office, Carnegie Institute

Harvey Nathaniel Davis U 1901* Cambridge, Mass.
Assistant Professor of Physics and Mathematics, Harvard University

Nathaniel French Davis CF 1900*† Providence, R. I.
Professor of Mathematics, Brown University

Herbert Franklin Davison U 1905 Pawtucket, R. I.
Science Teacher, High School

Edmund Burke Delabarre CF 1900*† Providence, R. I.
Professor of Psychology, Brown University

Maurice Lois Dolt U 1906 South Bethlehem, Pa.
Instructor in Chemistry, Lehigh University

Edwin Arthur Dow U 1911 Iowa City, Ia.
Instructor, State University of Iowa

Henry Bernardin Drowne U 1903 New York City
Instructor in Engineering, Columbia University

Norman Armin Dubois G 1903* (Case F 1907) Cleveland, Ohio
Dean, Professor of Chemistry, Western Reserve University

Harold Bowen Edmundson U 1909 Providence, R. I.
State Board of Public Roads

Victor Emanuel Emmel G 1905 St. Louis, Mo.
Associate in Anatomy, Washington University Medical School

Albert Potter Farwell U 1910 Providence, R. I.
Chemist, Kendall Manufacturing Company

George Wilton Field A 1906* Sharon, Mass.
Chairman, Massachusetts Commission on Fisheries and Game

Robert Franklin Field U 1906 Providence, R. I.
Instructor in Physics, Brown University

Arthur Leonard Flagg U 1906 Providence, R. I.
Mining Geologist

Amory Prescott Folwell A 1906*† New York City
Editor, Municipal Journal and Engineer

Herbert Augustine Freeman U 1904 Hamson, N. J.

Caleb Allen Fuller G 1901* (Wisconsin CF 1907) Madison, Wis.
Assistant, Wisconsin State Hygienic Laboratory

Frank Taylor Fulton F 1903* Providence, R. I.
Physician, Rhode Island Hospital

Louis John Gillespie G 1910 New York City
Fellow in Bacteriology, Rockefeller Institute

George Herbert Gilbert G 1901 Greensboro, N. C.
Assistant Engineer, Southern Railway

Frederick Poole Gorham CF 1900*† Providence, R. I.
Associate Professor of Biology, Brown University

Philip Bardwell Hadley G 1905 Kingston, R. I.
Chief, Division of Biology, Agricultural Experiment Station

Henry Jewett Hall G 1901 New London, N. H.
Science Teacher, Colby Academy

James Alexander Hall U 1910 Providence, R. I.
Assistant Mechanical Engineer, Brown University

Walter Gardiner Harrington U 1911 New York City
Engineer, Good Roads Machinery Company

Howard Farnum Hart U 1904 (Syracuse CF 1906) Montclair, N. J.
Instructor in Mathematics, High School

Leslie Robert Hicks U 1903 Fall River, Mass.
Superintendent, Fall River Electric Light Company

John Edward Hill CF 1900*† Providence, R. I.
Professor of Civil Engineering, Brown University

Norman Edward Holt U 1910 Providence, R. I.
Instructor in Chemistry, Brown University

Ray Palmer Hovey U 1905 Salt Lake City, Utah
Engineer, Utah Copper Company

Roland Ellis Hutchins U 1910 Providence, R. I.
Instructor in Civil Engineering, Brown University

Lulu Broadbent Joslin G 1907 Baltimore, Md.
Instructor of Physics, Goucher College

George Thomas Huxford U 1909 Providence, R. I.

William Williams Keen A 1906*† Philadelphia, Pa.
President, American Philosophical Society

John Vincent Keily U 1911 Providence, R. I.
General Fire Extinguisher Company

William Herbert Kenerson CF 1900 Providence, R. I.
Associate Professor of Mechanical Engineering, Brown University

Frederick George Keyes G 1908 Rochester, N. Y.
In Research

Ira Winsor Knight U 1911 Boston, Mass.
Graduate Student, Massachusetts Institute of Technology

Allen Kramer Krause G 1902 Baltimore, Md.
Student, Johns Hopkins Medical School

Krieble Vernon Krieble U 1907 Montreal, Canada
Instructor in Chemistry, McGill University

Julius Lasker U 1909 Providence, R. I.

Nels Johann Lennes F 1906 (Chicago G 1906) New York City
Instructor in Mathematics, Columbia University

Albert John Loepsinger U 1906 Providence, R. I.
Mechanical Engineer, General Fire Extinguisher Company

Harold William Lyall G 1910 Brooklyn, N. Y.
Associate Hoagland Laboratory, Long Island College Hospital

Harold Lester Madison G 1903 Providence, R. I.
Curator, Roger Williams Park Museum

Joseph James Malcolm U 1907
(Deceased 1907)

Henry Parker Manning CF 1900*† Providence, R. I.
Associate Professor of Pure Mathematics, Brown University

James Cook Martin G 1910 Princeton, N. J.
Assistant in Geology, Princeton University

Albert Davis Mead CF 1900*† Providence, R. I.
Professor of Biology, Brown University

Ada Geneva (Wing) Mead CF 1900 Providence, R. I.
(Mrs Albert Davis Mead)

Alexander Meiklejohn CF 1900*† Providence, R. I.
Professor of Logic and Metaphysics, Brown University

Jesse George Melendy U 1901 Cleveland, Ohio
Superintendent, United States Works of General Chemical Company

Haven Metcalf A 1906*†(Nebraska G 1902) Washington, D. C.
Pathologist, Bureau of Plant Industry, U. S. Department of Agriculture

Harold Edmund Miller U 1907 Providence, R. I.
Assistant Engineer, State Board of Public Roads

Max Merrill Miller U 1901 Yonkers, N. Y.
Designer, Bridge Department, New York Central and Hudson River Railroad

Philip Henry Mitchell F 1904 (Yale U 1904) Providence, R. I.
Assistant Professor of Physiology, Brown University

Lyman Churchill Newell A 1906*† Boston, Mass.
Professor of Chemistry, Boston University

Arthur Edwin Norton U 1900 Cambridge, Mass.
Assistant Professor of Mechanical Drawing, Harvard University

Chester Linwood Nourse U 1909 Cambridge, Mass.
Harvard University

George Barrows Obear G 1905* Waterville, Me.
Instructor in Physics, Colby College

Alpheus Spring Packard CF 1900†
(Deceased 1905)

Roscoe Milliken Packard G 1903 Washington, D. C.
Assistant Examiner, United States Patent Office

George Frederick Paddock U 1902 Mt. Hamilton, Cal.
Assistant, Lick Observatory

Albert de Forest Palmer CF 1900* Providence, R. I.
Associate Professor of Physics, Brown University

George Freeman Parmenter G 1903* Waterville, Me.
Associate Professor of Chemistry, Colby College

Irving Wooster Patterson U 1909 Providence, R. I.

John Combe Pegram, Jr F 1903†
(Deceased 1906)

Jay Perkins F 1903* Providence, R. I.
Physician, Demonstrator in Anatomy, Brown University

Charles Manchester Perry A 1906 Greene, R. I.
With Sayles Bleacheries and Glenlyon Dye Works

Irving Wilhert Pettengill U 1911 Detroit, Mich.
Engineer, Cadillac Motor Car Company

Thurston Mason Phetteplace U 1901 Providence, R. I.
Assistant Professor of Mechanical Engineering, Brown University

Robinson Pierce U 1902 South Easton, Mass.

Charles Huntington Porter U 1900 Boston, Mass.
Comptroller, W. H. McElwain Company

David James Purdie U 1911 Providence, R. I.

Oscar William Rackle U 1906 Providence, R. I.

Lemuel Charles Raiford U 1900 Chicago, Ill.
Instructor in Chemistry, University of Chicago

Otis Everett Randall CF 1900*† Providence, R. I.
Professor of Mechanics and Mechanical Drawing, Brown University

Roland George Dwight Richardson F 1904 (Yale F 1904)) Providence, R. I.
Assistant Professor of Mathematics, Brown University

William Nisbet Ross U 1907 Providence, R. I.
Teacher of Science, English High School

George Herbert Sherwood G 1900 New York City
Curator, American Museum of Natural History

Marian Lydia Shorey G 1906 (Chicago G 1906) Milwaukee, Wis.
Professor of Biology, Milwaukee-Downer College

Walter Clifton Slade U 1907 Pittsfield, Mass.
Research Chemist, General Electric Company

Frederick Slocum CF 1900* Williams Bay, Wis.
Assistant Professor of Astronomy, Yerkes Observatory

George Hawthorne Smith G 1910 Providence, R. I.
Assistant in Physiology, Brown University

Roy Harman Smith U 1901 Cleveland, Ohio
Superintendent, National Screw and Tack Company

Walter Edward Smith CF 1900 Providence, R. I.
Foundry Company

Henry Pomeroy Stacy U 1908 New York City
Bridge Designer, New York Central and Hudson River Railway

Frank William Stephens U 1905 Hornersville, N. Y.
Engineer, Panama Canal Company

Harlan True Stetson U 1908 Hanover, N. H.
Instructor in Physics, Dartmouth College

Mary Clegg Suffa U 1910 Warwick, R. I.
Teacher of Mathematics, Warwick High School

Michael Xavier Sullivan G 1902* Washington, D. C.
Chemist, United States Bureau of Soils

Walter Edward Sullivan G 1910 Cleveland, Ohio
Instructor in Biology, Western Reserve University

Everett Harold Swett U 1907 Montrose, Col.
Engineer, United States Reclamation Service

George Francis Sykes G 1910 Corvallis, Ore.
Instructor in Zoology, Oregon Agricultural College

Howard Alfred Taber U 1910 Oxford, Eng.
Rhodes Scholarship, Oxford University

Frank Carter Taylor U 1909 Providence, R. I.

Millett Taylor Thompson G 1900*
(Deceased 1907)

Ralph Cameron Thompson G 1903 Attleboro, Mass.
Treasurer, Charles M. Robbins Company

Ralph Winfred Tower CF 1900*† New York City
Curator, American Museum of Natural History

Henry Carroll Tracy G 1906 Evanston, Ill.
Instructor, Medical School, Northwestern University

Ernest Edward Tyzzer A 1906* Cambridge, Mass.
Assistant in Pathology, Harvard University

Winslow Upton CF 1900*† Providence, R. I.
Professor of Astronomy, Brown University

Herbert Eugene Walter F 1909* Providence, R. I.
Assistant Professor of Biology, Brown University

Arthur Eugene Watson CF 1900* Providence, R. I.
Assistant Professor of Physics, Brown University

Clarence West Wade U 1908 Manila, P. I.
Bureau of Public Works

Martha Wilbur Watt U 1900 Providence, R. I.
Teacher of Mathematics, Fielden-Chace School

Robert Campbell Weed U 1909 Arlington, Mass.
Student, Harvard University

Niles Westcott U 1905 New Haven, Conn.
Student, Yale Medical College

Frank Perkins Whitman A 1906* Cleveland, Ohio
Professor of Physics, Western Reserve University

Alice Wilson Wilcox G 1906 Providence, R. I.
Instructor in Biology, Women's College, Brown University

Leonard Worcester Williams G 1901* Boston, Mass.
Instructor, Harvard Medical School

Sydney Wilmot U 1909 New York City
Graduate Student, Columbia University

Clarence Edgar Wilson CF 1900 Perth Amboy, N. J.
Chemist

Ada Geneva Wing CF 1900 Providence, R. I.
(Mrs Albert Davis Mead)

Arthur Melvin Winslow U 1903 Providence, R. I.

Foster Verne Young U 1911 Worcester, Mass.
Manufacturer

IOWA CHAPTER

State University of Iowa, Iowa City, Iowa

Charter Dated June 22, 1900 Chapter Installed November 14, 1900

HISTORICAL SKETCH

On June 22, 1900, a charter was granted for the establishment of "a Chapter of the Society of the Sigma Xi at the State University of Iowa." There being no other chapter of Sigma Xi in the state of Iowa at the time, the Chapter designated in its charter by the phrase quoted above decided to call itself the "Iowa Chapter," a name which has continued to the present time without the use of a chapter letter.

The Iowa Chapter of the State University of Iowa was installed with twelve charter members. In the election of new members, the policy of the Chapter has ever been conservative, hence it is that at the end of its tenth year the total membership reaches only one hundred and sixty-one. Of this number, fifty-one are active members.

It was decided early in the history of the Chapter that two public lectures should be attempted each year; one of these to be given early in the fall by the retiring president of the Chapter; the other to come as near to February 22 as possible and to be delivered by some distinguished investigator outside the Chapter. The plan so adopted has been adhered to consistently, and these two lectures have become established University functions.

In addition to these two occasions when the entire University is invited as guests of the Chapter, several closed meetings are held throughout the year at which reports on researches in progress are made by the members. These, together with the business meetings, have served to unify the scientific interests of the University to a highly desirable degree.

G. L. H.

OFFICERS FOR 1911–12

President.....William Galt Raymond
Vice-President.....Carl Emil Seashore
Recording Secretary.....James Newton Pearce
Corresponding Secretary.....Gilbert Logan Houser
Treasurer.....Robert Bradford Wylie
Councilor.....Thomas Huston Macbride

MEMBERSHIP ROLL

Emma Beth Achenbach (Mrs. E. B. Brauch)	U 1905	Lakefield, Ia.
Joseph Quincy Adams	U 1909 City Engineer	Centerville, Ia.

Frederick Albert U 1904 Mason City, Ia.
Physician

Henry Albert F 1903*† Iowa City, Ia.
Professor of Pathology and Bacteriology, State University of Iowa

Clive Morris Alexander U 1911 Iowa City, Ia.
Assistant in Chemistry, State University of Iowa

Rudolph Martin Anderson U 1903 New York City
Zoologist, American Museum of Natural History

Launcelot Winchester Andrews CF 1900*† Davenport, Ia.
President, Andrews Chemical Works

Kathryn Theiss Aschenbrenner U 1911 Atlantic, Ia.
Science Teacher, High School

Frederick George Baender U 1908 Oakland, Cal.
Mechanical Engineer Foreman, Southern Pacific Railroad Shops

Richard Philip Baker F 1907 Iowa City, Ia.
Instructor in Mathematics, State University of Iowa

William Edward Barlow F 1904 Blacksburg, Va.
Professor of Metalurgy and Metallography, Virginia Polytechnic Institute

William Milton Barr U 1902 (Pennsylvania G 1905) Davenport Ia.
Acting Manager, Andrews Chemical Company

Albert Moore Barrett G 1904 (Michigan A 1904) Ann Arbor, Mich.
Professor of Nervous Diseases and Psychiatry, University of Michigan

Claude Alpheus Bartholow U 1904 Minneapolis, Minn.
Civil Engineer with W. D. Lovell Company

Paul Bartsch G 1905* Washington, D. C.
Curator of Conchology, Smithsonian Institution

Arthur Neal Bean U 1906 Minneapolis, Minn.
Great Northern Railway Office

William Edmund Beck G 1902 Sioux City, Ia.
Teacher of Mathematics, Sioux City High School

William Bonar Bell U 1902 Fargo, N. D.
Professor of Zoology and Physiology, North Dakota Agricultural College

James Guest Berryhill, Jr U 1903 Des Moines, Ia.
Attorney

Walter Martinus Boehm U 1902 (Pennsylvania F 1907) Philadelphia,
Instructor in Physics, University of Pennsylvania [Pa.

Perry Avery Bond U 1901 Chicago, Ill.
Instructor in Chemistry, Armour Institute of Technology

Frederic Bonnet, Jr F 1904* (Worcester CF 1908) Worcester,
Assistant Professor of Chemistry, Worcester Polytechnic Institute [Mass.

Charles Henry Bowman G 1901 Butte, Mont.
President, Montana State School of Mines

Lucy Winifred Brant U 1906 Council Bluffs, Ia.
(Mrs James Mead)

Fay Cluff Brown F 1910 (Illinois F 1905) Iowa City, Ia.
Assistant Professor of Physics, State University of Iowa

Grace Emma Buckley U 1907 Cresco, Ia.
Science Teacher, High School

Harry Pitkin Burgum U 1904 Minneapolis, Minn.
Civil Engineer, W. D. Lovell Company

Ira Arthur Burkheimer U 1908 Seattle, Wash.
Civil Engineer

Harry Edward Burton G 1905 Washington, D. C.
Assistant, United States Naval Observatory

Samuel Calvin CF 1900*†
(Deceased 1911)

Olive Merrill Chase U 1906 Vancouver, Wash.
(Mrs George W Gearheart) Teacher of Domestic Science, High School

Edward Perry Churchill U 1907 Washington, Ia.
Principal, High School

Arthur John Cox G 1908 Iowa City, Ia.
Civil Engineer

Edward Webster Crellin G 1908 Des Moines, Ia.
President, Des Moines Bridge and Iron Works

Sarah Elizabeth Cronin U 1903 Iowa City, Ia.
Instructor in Mathematics, State University of Iowa

Lilah B Crum U 1910 Osage, Ia.
Principal, High School

Arnold Victor Dahlberg F 1908 (Minnesota U 1905) Spreckels, Cal.
Industrial Chemist

Donald Berryhill Davison U 1911 Cambridge, Mass.
Student, Harvard University.

George Edward Decker G 1908 Davenport, Ia.
Physician

Otto Dell De Hart U 1905 Dallas, Tex.
Engineer, Des Moines Bridge and Iron Company

Philip Kirby De Voe U 1910 Creston, Ia.
With City Engineer

Edward Lewis Dodd F 1905* (Yale G 1904) Austin, Tex.
Instructor in Mathematics, University of Texas

Gilman Arthur Drew G 1905*† Woods Hole, Mass.
Assistant Director, Marine Biological Laboratory

George Frederick Eckhard U 1905 Decatur, Ill.
Professor of Civil Engineering, James Millikin University

Paul Frederick Edinger G 1906 Cedar Rapids, Ia.
In Business

Charles Howard Edmondson G 1904 Topeka, Kan.
Professor of Biology, Washburn University

Evie James Edwards U 1907 Boston, Mass.
Instructor in Electrical Engineering, Massachusetts Institute of Technology

Anfin Egdahl F 1906 Menomonee, Wis.
Physician

Frederic Grant Emry U 1902 Paonia, Col.
Merchant

Louise Henrietta Falk U 1909 Ft. Collins, Col.
(Mrs Wilfred W Robbins)

Clifford Harrison Farr U 1911 Iowa City, Ia.
Scholar in Botany, State University of Iowa

Burton Percival Fleming F 1910 Iowa City, Ia.
Professor of Steam and Mechanical Engineering, State University of Iowa

Arthur Hillyer Ford F 1907 Iowa City, Ia.
Professor of Electrical Engineering, State University of Iowa

George Cutler Fracker G 1909* Marquette, Mich.
Professor of Psychology, Northern State Normal School

Charles McLean Fraser G 1911 Iowa City, Ia.
Fellow in Zoology, State University of Iowa

Russell D George F 1901* (Colorado CF 1905) Boulder, Col.
State Geologist, Professor of Geology, University of Colorado

George Sabin Gibbs G 1904 Ft. Leavenworth, Kan.
Captain, United States Signal Corps

Levi Alexander Giddings U 1911 Iowa City, Ia.
Assistant in Botany, State University of Iowa

Henry Max Goettsch F 1901 Cincinnati, Ohio
Assistant Professor of Chemistry, University of Cincinnati

Mary Caroline Griffith U 1905 Whittier, Cal.
Science Teacher

Karl Eugen Guthe F 1906*† (Michigan CF 1905) Ann Arbor, [Mich.
Professor of Physics, University of Michigan

Eugene C Hartley U 1908 Cloquet, Minn.
Teacher

Harvey Wilfred Hartupee U 1911 Des Moines, Ia.
Engineer

Earl Washington Hatz U 1911 Watertown, S. D.
Engineer, Watertown Light and Power Company

Beulah Hayden U 1911 Iowa City, Ia.
Assistant in Zoology, State University of Iowa

Jesse Van Fleet Henley U 1908 San Diego, Cal.
In Business

Emil John Hemmer U 1906 Chicago, Ill.
Civil Engineer, Chicago, Milwaukee and St. Paul Railway

Frederick Goodson Higbee F 1910 Iowa City, Ia.
Professor of Geometry and Drawing, State University of Iowa

Sebern Waldo Hockett G 1905 Moorhead, Minn.
Professor of Science, State Normal School

Ivan Edgar Houk U 1911 Memphis, Tenn.
Civil Engineer, Morgan Engineering Company

Gilbert Logan Houser CF 1900* Iowa City, Ia.
Professor of Animal Biology, State University of Iowa

Campbell Palmer Howard F 1911 Iowa City, Ia.
Professor of Theory and Practice of Medicine, State University of Iowa

Ralph Chase Huston G 1908 East Lansing, Mich.
Assistant Professor of Chemistry, Michigan Agricultural College

Harry Morgan Ivins U 1904 Cedar Rapids, Ia.
Physician

Frank Thomas Jensen U 1901 Dysart, Ia.
Editor

William Jepson F 1905 Iowa City, Ia.
Professor of Surgery, State University of Iowa

Susan Grace Jewell G 1908 Tabor, Ia.
Professor of Biology, Tabor College

Anna Johnson G 1904 Vermilion, S. D.
(Mrs Alexander Pell)

Otto Frederic Kampmeier U 1909 Princeton, N. J.
Fellow in Zoology, Princeton University

William Jay Karslake F 1906 Iowa City, Ia.
Assistant Professor of Chemistry, State University of Iowa

George Frederick Kay F 1908* (Chicago G 1903; Kansas G 1904)
Professor of Economic Geology, State University of Iowa [Iowa City, Ia.

Carleton Volney Kent U 1904 Northfield, Minn.
Acting Professor of Physics, Carleton College

Frank Dunn Kern U 1904 Lafayette, Ind.
Instructor in Botany, Purdue University

Rudolph Ernst Kleinsorge G 1906 Silverton, Ore.
Physician

Noah D Knupp G 1911 Iowa City, Ia.
Assistant in Botany, State University of Iowa

Raymond Carl Kramer U 1907 Chicago, Ill.
Civil Engineer, Chicago, Burlington and Quincy Railway

Albert Kuntz G 1910 Iowa City, Ia.
Instructor in Biology, State University of Iowa

Byron James Lambert G 1904 Iowa City, Ia.
Professor of Structural Engineering, State University of Iowa

Charles Irwin Lambert U 1901 New York City
Assistant Pathologist, New York Pathological Institute

John Joseph Lambert F 1902 Iowa City, Ia.
Assistant Professor of Anatomy, State University of Iowa

Charles Frederic Lorenz F 1900 Cleveland, Ohio
Physicist, National Electric Lamp Association

Frederick William Lovell G 1909 Cleveland, Ohio
Vice-President and Secretary, McMyler Interstate Company

Thomas Huston Macbride CF 1900*† Iowa City, Ia.
Professor of Botany, State University of Iowa

Charles Scott Magowan F 1904
(Deceased 1907)

Richard Dana Marsh U 1902 Minneapolis, Minn.
Civil Engineer, Bailey-Marsh Company

Calvin Terry McClintock U 1905 Sioux City, Ia.
Teller, Woodbury County Savings Bank

Lucy Winifred (Brant) Mead U 1906 Chicago, Ill.
(Mrs James Mead)

Dayton Eugene Merrill G 1910 Iowa City, Ia.
Fellow in Zoology, State University of Iowa

Walter Richard Miles G 1911 Iowa City, Ia.
Fellow in Psychology, State University of Iowa

LeRoy F Miller U 1909 Detroit, Mich.
Chemist, Parke Davis and Company

James Burt Miner F 1905* (Columbia F 1903) Minneapolis, Minn.
Assistant Professor of Psychology, University of Minnesota

Fred Moore U 1906 Iowa City, Ia.
Scholar in Medicine, State University of Iowa

George Wilber Moffitt U 1910 Palo Alto, Cal.
Assistant in Physics, Leland Stanford Junior University

George Haines Mount G 1910 Cedar Falls, Ia.
Professor of Psychology. Iowa State Teachers College

George Auerbach Neustadt U 1908 Decatur, Ill.
In Business

Francis Eugene Nipher G 1905*† St. Louis, Mo.
Professor of Physics, Washington University

Charles Cleveland Nutting CF 1900*† Iowa City, Ia.
Professor of Zoology, State University of Iowa

Ernest Linwood Ohle F 1906 (Case U 1904) St. Louis, Mo.
Professor of Mechanical Engineering, Washington University

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Assistant Professor of Chemistry, State University of Iowa

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James Owen Perrine U 1909 Ann Arbor, Mich.
Assistant in Physics, University of Michigan

Charles Delos Poore F 1906 (Minnesota U 1905) Aberdeen, S. D.
Professor of Physics and Chemistry, Northern State Normal School

Henrietta Prentiss G 1907 New York City
Instructor in Zoology, Normal College

Henry James Prentiss F 1906 Iowa City, Ia.
Professor of Anatomy, State University of Iowa

George Cornelius Priester U 1910 Minneapolis, Minn.
Instructor in Mathematics, University of Minnesota

Ralph Clarkson Puckett U 1908 Iowa City, Ia.
Manager, Interseal Inner Tire Company

Roswell Clair Puckett U 1909 Nabua, Ambos Camarines, P. I.
Superior of Schools, Nabua District, Bureau of Education Philippine Islands

Karl Sobieski Putnam U 1911 Fairfield, Ia
Engineer with Fairfield Gas and Electric Company

William Galt Raymond F 1905*† (Rensselaer F 1895) Iowa City, Ia.
Dean of College of Applied Science, State University of Iowa

John Franklin Reilly F 1910 Iowa City, Ia.
Assistant Professor of Mathematics, State University of Iowa

Joseph Richmond U 1910 Chicago, Ill.
Civil Engineer, Chicago, Burlington and Quincy Railway

Edith Gertrude Rigler U 1910 Iowa City, Ia.
Assistant Registrar, State University of Iowa

Louise Henrietta Robbins U 1909 Ft. Collins, Col.
(Mrs W W Robbins)

Elbert William Rockwood F 1904*† Iowa City, Ia.
Professor of Chemistry, State University of Iowa

Ralph Eugene Root F 1910 Columbia, Mo.
Instructor in Mathematics, University of Missouri

Edward John Ruff U 1906 Ambridge, Pa.
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Assistant Professor of Geology, University of Illinois

Charles Plume Schenck U 1904 Temple, Tex.
Physician, Temple Sanitarium.

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Mechanical Engineer, Federal Rubber Manufacturing Company

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Professor of Psychology and Dean of Graduate College, State University of Iowa

Fred Jay Seaver G 1904 New York City
Director of Laboratories, New York Botanical Garden

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Civil Engineer

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Mining Engineer, Wapello Mining Company

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Civil Engineer with G. W. Haggart Company

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Fellow in Botany, State University of Iowa

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Civil Engineer

Arthur George Smith CF 1900* Iowa City, Ia.
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Charles Horton Smith U 1901 Minneapolis, Minn.
Civil Engineer, W. D. Lovell Company

Franklin Orion Smith G 1907 Iowa City, Ia.
Fellow in Psychology, State University of Iowa

Frank Springer G 1900*† Las Vegas, N. M.
Paleontologist

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Surveyor

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Assistant in Museum, State University of Iowa

Frank Albert Stromsten G 1902 Iowa City, Ia.
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Arthur Lawrie Tatum G 1907 (Colorado F 1907) Madison, Wis.
Instructor in Pharmacology and Toxicology, University of Wisconsin

Maud Estella Taylor G 1906 Ottumwa, Ia.
Physician

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Assistant in Electrical Engineering, Massachusetts Institute of Technology

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Instructor in Geology, State University of Iowa

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Graduate Student, State University of Iowa

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Physician, Milwaukee Railway Hospital

John Andrews Udden G 1906 (Chicago G 1907) Chicago, Ill.
Graduate Student, University of Chicago

Hyman Josepf Udinsky U 1910 Philadelphia, Pa.
Student, Jefferson Medical College

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Scholar in Botany, State University of Iowa

Clarence Van Epps F 1907 Iowa City, Ia.
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Assistant in Geology, State University of Iowa

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Clergyman

Andrew Anderson Veblen CF 1900* Stillwater, Minn.
Retired

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Professor of Chemistry, Universtiy of Idaho

Hershey Samuel Welch U 1904 North Platte, Neb.
Civil Engineer, Union Pacific Railway

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Professor of Physics, Coe College

Laenas Gifford Weld CF 1900*† Iowa City, Ia.
Professor of Mathematics, State University of Iowa

Roy Titus Wells F 1904* Boston, Mass.
Electrical Engineer

John Van Etten Westfall CF 1900* New York City
Expert Accountant, Equitable Life Insurance Company

Clarence Lester White U 1909 The Dalles, Ore.
City Engineer

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Professor of Entomology, State University of Iowa

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Consulting Geologist, Southern Gypsum Company

Mabel Claire Williams G 1909 Iowa City, Ia.
Assistant Professor of Psychology, State University of Iowa

Bernard Darwin Willis G 1904 Chicago, Ill.
Electrical Engineer, Automatic Electric Company

John Henry Witte U 1910 Burlington, Ia.
In Business

Finley Miller Witter G 1906
(Deceased 1909)

Mary Louise Woods G 1909 Prairieburg, Ia.
(Mrs Levi Wilkinson)

Sherman Melville Woodward F 1905 Iowa City, Ia.
Professor of Mechanics, State University of Iowa

Archie Garfield Worthing F 1908 Cleveland, Ohio
Physicist to National Electric Lamp Association

Bertram Joseph Wright U 1906 Montreal, Canada
Designer Draftsman, Canadian Pacific Bridge Department

Robert Bradford Wylie F 1907* (Chicago A 1904) Iowa City, Ia.
Professor of Morphological Botany, State University of Iowa

Alice Emily Yocum U 1907 Iowa City, Ia.
Graduate Student, State University of Iowa

Frederick Charles Young U 1909 Iowa City, Ia.
Instructor in Civil Engineering, State University of Iowa

Mildred Rebecca Yule U 1906 Iowa City, Ia.
Assistant in Biology, State University of Iowa

STANFORD CHAPTER

Leland Stanford Junior University, Palo Alto, California

Charter Dated December 16, 1901 Chapter Never Formally Installed

HISTORICAL SKETCH

Stanford Chapter of Sigma Xi was organized at the initiation of a number of resident members of the Stanford faculty holding membership from other institutions. Of this group of fourteen who became the charter members of this Chapter, ten were members of the Alpha Chapter at Cornell Universtiy. The charter was granted December 16, 1901, and the Society held its first meeting January 23, 1902.

As a matter of general policy, membership has been restricted almost entirely to graduate students who have either completed a creditable piece of research work or have otherwise given undoubted evidence of their ability to carry on original investigation. Undergraduates of senior standing are elected very rarely, so the resident active membership of the Society has never been large. The activities of the Society have been limited thus far to occasional formal lectures by prominent scientists and to the promotion of social intercourse among the members.

L. R. A.

OFFICERS FOR 1911–12

President.....Guido Hugo Marx
Vice-President.....Samuel Barclay Charters, Jr.
Recording Secretary.....LeRoy Abrams
Corresponding Secretary.....LeRoy Abrams
Treasurer.....LeRoy Abrams
Councilor.....Harris Joseph Ryan

MEMBERSHIP ROLL

James Francis Abbott A 1908* St. Louis, Mo.
Professor of Embryology and Zoology, Washington University

LeRoy Abrams G 1902* Stanford University, Cal.
Associate Professor of Botany, Leland Stanford Junior University

Robert Edgar Allardice F 1902*† Stanford University, Cal.
Professor of Mathematics, Leland Stanford Junior University

William Fitch Allen A 1907 (California F 1908) Minneapolis, Minn.
Instructor of Histology, University of Minnesota

Frank M Anderson A 1904* (California G 1909) Berkeley, Cal.
Geologist, Southern Pacific Railway Company

Robert Van Vleck Anderson G 1909 Washington, D. C.
Assistant Geologist, United States Geological Survey

Frank Angell CF 1902*† (Cornell F 1892) Palo Alto, Cal.
Professor of Psychology, Leland Stanford Junior University

George Hall Ashley A 1904*† Washington, D. C.
Geologist, United States Geological Survey

Arthur Oswin Austin G 1909 Barberton, Ohio
Electric and Ceramic Engineer, Ohio Insulator Company

Luther Madison Bahney F1911 Palo Alto, Cal.
Assistant Professor of Metallurgy, Leland Stanford Junior University

Samuel Jackson Barnett CF 1902* (Cornell G 1897) Columbus, Ohio
Assistant Professor of Physics, Ohio State University

George DeForest Barnett F 1909 Baltimore, Md.
Student, Johns Hopkins University Medical School

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Professor of Chemistry, Pei Yang University

Frank George Baum F 1902* Berkeley, Cal.
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Ruby (Green) Bell G 1904 (Cornell F 1905) Ithaca, N. Y.
(Mrs Albert William Smith)

Samuel Stillman Berry G 1909 Stanford University, Cal.
Graduate Student, Leland Stanford Junior University

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(Mrs Charles Bartlett Blakeman)

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Associate Professor of Mathematics, Leland Stanford Junior University

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John Casper Branner CF 1902*† (Cornell A 1887) Stanford
Vice-President, Professor of Geology [University, Cal.

Luther Burbank F 1905 Santa Rosa, Cal.
Plant Breeder

John Samuel Burcham A 1904
(Deceased 1905)

Charles Victor Burke G 1908 Stanford University, Cal.
Graduate Student, Leland Stanford Junior University

William Edmund Burke U 1905 Camoguey, Cuba
Assistant Chemist with Hawaiian Sugar Plantation Association

Leonas Lancelot Burlingame F 1908 Stanford University, Cal.
Assistant Professor of Botany, Leland Stanford Junior University

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Consulting Engineer, Burns and McDonnell

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Associate Professor of Physiology, University of Chicago

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Instructor in Physics, Purdue University

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Junior Geologist, U. S. Geological Survey

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Assistant Professor of Electrical Engineering, Leland Stanford Junior University

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Academic Secretary, Leland Stanford Junior University

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Professor of Chemistry and Geology, State Normal School

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Assistant Professor of Metallurgy, Leland Stanford Junior University

George Albert Coleman G 1905 Berkeley, Cal.
Curator, University of California

Melville Thurston Cook A 1904* Newark, Del.
Plant Pathologist, Delaware Agricultural Experiment Station

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Assistant in Psychology, Leland Stanford Junior University

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Electrical Engineer, Pacific Gas and Electric Company

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Dean, College of Agriculture, University of Philippines

Rhinehart Parker Cowles A 1907* Baltimore, Md.
Associate in Biology, Johns Hopkins University

Alvin Joseph Cox G 1903* Manila, P. I
Chemist, United States Government Laboratories

Roderic Crandall A 1907 Rio Janeiro, Brazil
Geologist, Geological Survey of Brazil

Mary Ruhamah Cravens G 1905 Sacramento, Cal.
Instructor in Science, High School

Albert Cornelius Crawford F 1911 Palo Alto, Cal.
Professor of Pharmacology, Leland Stanford Junior University

Charles Norman Cross F 1911 Palo Alto, Cal.
Instructor in Engineering, Leland Stanford Junior University

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Assistant, Chemistry Department, Leland Stanford Junior University

Lawrence Edminster Cutter F 1911 Palo Alto, Cal.
Instructor in Engineering, Leland Stanford Junior University

Lewis Andrew Darling G 1904 (Cornell F 1907) Grand Rapids, Mich.
Chief Engineer and Works Manager

William Mark Davidson G 1910 San Jose, Cal.
Agent, United States Bureau of Entomology

Bradley Moore Davis A 1904*† (Chicago CF 1903) Philadelphia, Pa.
Assistant Professor of Botany, University of Pennsylvania

Mary Cynthia Dickerson F 1908† New York City
Curator, American Museum of Natural History

Rennie Wilbur Doane A 1906* Palo Alto, Cal.
Assistant Professor of Entomology, Leland Stanford Junior University

Robert William Dodd G 1904 San Francisco, Cal.
Instructor in Chemistry, Cogswell Polytechnic College

Norman Eliot Dole G 1905 San Francisco, Cal.
Assistant Superintendent, Western Sugar Refinery

Robert L'Amy Donald A 1905 Portland, Ore.
Contracting Engineer

Noah Fields Drake A 1904* Stanford University, Cal.
Associate Professor of Economic Geology, Leland Stanford Junior University

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Assistant Professor of Physics, Leland Stanford Junior University

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Emeritus Professor of Botany, Leland Stanford Junior University

William Frederick Durand F 1904*† (Cornell F 1892) Palo Alto, Cal.
Professor of Mechanical Engineering, Leland Stanford Junior University

William Rankine Eckardt F 1908 Palo Alto, Cal.
Associate Professor of Mechanical Engineering, Leland Stanford Junior

Frank Oakes Ellenwood F 1911 New York City
Acting Assistant Professor, Columbia University

Cyril Frank Elwell G 1908 Palo Alto, Cal.
President, Poulson Wireless Telephone and Telegraph Company

John Charles Lounsbury Fish CF 1902* (Cornell U 1892) Palo Alto, Cal.
Professor of Railroad Engineering, Leland Stanford Junior University

Walter Kenrick Fisher G 1904*† Palo Alto, Cal.
Assistant Professor of Zoology, Leland Stanford Junior University

Fred Finley Fitzgerald G 1906 Palo Alto, Cal.
Chemist, Oil Department, Southern Pacific Railway Company

David Morrill Folsom A 1907 Palo Alto, Cal.
Assistant Professor of Mining, Leland Stanford Junior University

Eleanor Anna Foshay G 1910 Los Angeles, Cal.
Teacher of Science, High School

Edward Curtis Franklin F 1903*† (Kansas F 1890) Palo Alto, Cal.
Professor of Organic Chemistry, Leland Stanford Junior University

David Timmons Fulloway U 1908 Honolulu, H. I.
Entomologist, United States Agricultural Station

Harry Drake Gibbs G 1901 Manila, P. I.
Chemist, United States Bureau of Science

Ruby Green G 1904 (Cornell F 1905) Ithaca, N. Y.
(Mrs Albert William Smith)

Harry Lewis Haehl A 1907 Palo Alto, Cal.
Civil and Mining Engineer, Leland Stanford Junior University

Elmon Lawrence Hall G 1910 Milwaukee, Ore.
Assistant Superintendent, Portland Gas Company

Walter Raleigh Hamilton A 1910 San Francisco, Cal.
Geologist, Associated Oil Company

William Draper Harkins A 1905* (Chicago G 1904) Missoula, Mont.
Professor of Chemistry, University of Montana

Harold Heath F 1902* Palo Alto, Cal.
Professor of Zoology, Leland Stanford Junior University

Edmund Heller A 1909 Washington, D. C.
Assistant in Charge of the Roosevelt African Collections, United States National Museum

Charles William Henderson U 1910 Denver, Col.
Statistician, United States Geological Survey

Lou Henry A 1907 London, England
(Mrs Herbert Clark Hoover)

Albert Christian Herre G 1905 Oakland, Cal.
Vice-Principal, Fremont High School

Rose Miriam Higley G 1908 San Rafael, Cal.
Teacher, San Rafael High School

William Arthur Hillebrand F 1905 (Cornell U 1905) Corvallis, Ore.
Professor of Electrical Engineering, Oregon Agricultural College

Thomas Buck Hine G 1911 Palo Alto, Cal.
Graduate Student, Leland Stanford Junior University

Herbert Clark Hoover A 1907 London, England
Manager, Director and Consulting Engineer, Various Mining Companies

Lou (Henry) Hoover A 1907 London, England
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Thomas Cramer Hopkins A 1904*† (Syracuse CF 1906) Syracuse, N. Y.
Professor of Geology, Syracuse University

Leander Miller Hoskins F 1902† Palo Alto, Cal.
Professor of Applied Mathematics, Leland Stanford Junior University

Harry Baker Humphrey G 1904 Pullman, Wash.
Assistant Professor of Botany, Washington State College

Shirley Hyatt G 1909 Palo Alto, Cal.
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Graduate Student, Leland Stanford Junior University

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President, Leland Stanford Junior University

Willis Wallace Jourdin U 1908 Hurley, N. M.
Chief Engineer, Chino Copper Company

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Professor of Entomology, Leland Stanford Junior University

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Professor of Machine Design and Construction, Cornell University

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Consulting Mining Engineer

Hugo Edmund Kramm G 1910 Ithaca, N. Y.
Instructor in Geology, Cornell University

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Entomologist, Imperial Agricultural Experiment Station

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Medical Student, Cooper Medical College

Anstruther Abercrombie Lawson F 1902 Glasgow, Scotland
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Assistant Professor of Mechanical Engineering, Leland Stanford Junior

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Geologist

William Montana Mann G 1911 Cambridge, Mass.
Assistant in Entomology, Harvard University

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Assistant Professor of Mathematics, Leland Stanford Junior University

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Geologist, Ponderosa Mining Company

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Professor of Mining Engineering, Yale University

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George Francis McEwen G 1909 Urbana, Ill.
Instructor in Mathematics, University of Illinois

Ernest Alexander McGregor U 1908 Dallas, Tex.
Entomologist, United States Bureau of Entomology, Southern Investigations

Richard Crittenden McGregor G 1909 Manila, P. I.
Assistant to Editor, Philippine Journal of Science, Bureau of Science

James Ira William McMurphy F 1909 Palo Alto, Cal.
Instructor in Botany, Leland Stanford Junior University

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Arthur Henry Myer G 1911 Pittsburgh, Pa.
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John Pearce Mitchell G 1904 Palo Alto, Cal.
Assistant Professor of Chemistry, Leland Stanford Junior University

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Instructor, Palo Alto High School

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State Entomologist, Quarantine Officer

George Munteami Murgoci G 1905 Bucharest, Roumania
Geologist, State Lecturer in Polytechnikum

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Field Geologist, British Pacific Oil Company, Ltd.

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Assistant, State Insectary

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Consulting Mining Engineer

Frederick William Nobs G 1910 Matagalpa, Nicaragua
Manager Oroya Leonesa Mines

Washington Henry Ochsner G 1909 Los Angeles, Cal.
Consulting Geologist

Pehr Hjalmar Olsson-Seffer G 1903*
(Deceased 1911)

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Assistant Curator, Field Museum of Natural History

Rose Patterson G 1907 San Jose, Cal.
(Mrs Charles Bartlett Blackman)

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Expert, United States Bureau of Entomology

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Geologist

Basil Prescott U 1908 Matehuala, S. L. P. Mexico
Superintendent, Minas Dolores Anexas

Albert Homer Purdue A 1907*† Fayetteville, Ark.
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George Mann Richardson F 1902
(Deceased 1902)

Robert Earl Richardson F 1909 Urbana, Ill.
Assistant, Illinois State Laboratory Natural History

Frederick John Rogers CF 1902* (Cornell F 1891) Palo Alto, Cal
Associate Professor of Physics, Leland Stanford Junior University

Jessie Perkins Rose G 1910 Crystal, Ore.
Private Research in Botany

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Assistant in Chemistry, Johns Hopkins University

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Professor of Electrical Engineering, Leland Stanford Junior University.

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Instructor in Chemistry, Pacific College of Osteopathy

George Daniel Shafer G 1906 (Cornell G 1907) East Lansing, Mich.
Research Entomologist, Michigan Agricultural College

Walter Robert Shaw A 1904* Manila, P. I.
Assistant Professor of Botany, University of the Philippines

Solon Shedd A 1906* Pullman, Wash.
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Ralph Harrison Sherry G 1905 (Rensselaer F 1908) Buffalo, N. Y.
Metallurgist, Pierce Arrow Motor Car Company

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Robert Evans Snodgrass G 1904* Washington, D. C.
Artist, Bureau of Entomology, United States Department of Agriculture

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Milo Herrick Spaulding G 1904 Bozeman, Mont.
Assistant Professor of Zoology, Montana Agricultural College

Georgina B Spooner G 1911 Palo Alto, Cal.
Graduate Student, Leland Stanford Junior University

Herbert Spencer Stark A 1907
(Deceased 1910)

Edwin Chapin Starks F 1904* Palo Alto, Cal.
Assistant Professor of Zoology, Leland Stanford Junior University

Nettie Maria Stevens A 1905* Bryn Mawr, Pa.
Associate in Experimental Morphology, Bryn Mawr College

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Professor of Chemistry, Leland Stanford Junior University

Susan Gabriella Stokes A 1910 Orange, Cal.
Teacher, Orange Union High School

Thomas Andrew Storey F 1902* New York City
Professor of Physical Training, College of the City of New York

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Professor of Chemistry, Leland Stanford Junior University

Walter Cox Taber G 1910 Washington, D. C.
Assistant Chemist, Bureau of Chemistry, Department of Agriculture

Arthur Fay Taggart G 1910 Oruro, Bolivia
Mining Engineer, Assistant to J. F. Newsom

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Botanist, Missouri Botanical Gardens

William Francis Thompson G 1910 Palo Alto, Cal.
Graduate Student, Leland Stanford Junior University

Sidney Dean Townley F 1907 Palo Alto, Cal.
Associate Professor of Applied Mathematics, Leland Stanford Junior

Gerald Ashley Waring A 1910 Rio de Janeiro, Brazil
Hydrographic Chief, Inspectoria de Obras Contra a Leccas

Frank Walter Weymouth G 1909 Palo Alto, Cal.
Acting Instructor in Physiology, Leland Stanford Junior University

William Franklin Wight A 1910 Washington, D. C.
First Assistant Botanist, United States Department of Agrculture

Francis Xavier Williams G 1908 (Kansas F 1909) Lawrence, Kan.
Assistant Curator in Entomology, University of Kansas

Horace Elbert Williams A 1907 Rio de Janeiro, Brazil
Geologist, Geological Survey of Brazil

Charles Benjamin Wing CF 1902 (Cornell CG 1887) Palo Alto, Cal.
Professor of Engineering, Leland Stanford Junior University

William Quinby Wright A 1907 Sausalito, Cal.
Chief Engineer, Northern California Mining Company

Stewart Woodford Young F 1902* Palo Alto, Cal.
Professor of Physical Chemistry, Leland Stanford Junior University

Hans Zinsser F 1911 Stanford University, Cal.
Professor of Bacteriology, Leland Stanford Junior University

CALIFORNIA CHAPTER

University of California, Berkeley, California

Charter Dated January 1902 Chapter Installed February 19, 1902

HISTORICAL SKETCH

Early in the fall of 1901 Professor W. A. Setchell called together the members of Sigma Xi known to be present on the faculty of the University of California, to discuss the advisability of organizing a Chapter of Sigma Xi at this institution. They were Professors W. A. Setchell and W. C. Morgan of the Yale Chapter together with Professors C. L. Cory, A. R. Ward, A. S. Eakle, W. L. Jepson, and J. N. LeConte, of the Cornell Chapter.

After a discussion, in which the sentiment was unanimous in favor of asking for a charter for a local Chapter, a committee consisting of Professors Setchell and Eakle was appointed to petition for a charter and to draw up a set of by-laws for the Chapter.

The special committee appointed at this meeting formally presented a petition to the Council for a charter, which was duly passed upon and granted, and the first regular business meeting of the California Chapter of the Society of Sigma Xi was called to order on February 19, 1902, by Professor Setchell.

The committee appointed to petition for a charter and to draw up a set of by-laws for the Chapter announced that a charter had been granted, and they presented a set of by-laws, which were adopted, after which an election of officers was held.

Five meetings were held before the close of the college year, mostly devoted to the transaction of business and the election and initiation of new members from the student body, as well as from the faculty. During the seven years of the Chapter's existence since this time an average of eight meetings a year have been held. Some of these meetings have been for the transaction of business only, but usually papers or addresses have been presented on these occasions, sometimes of a popular nature and open to the public, but more often the meetings have been restricted to the members of the Chapter.

In the fall of 1903 the Chapter decided to abandon the method of election of new members by general vote of the Chapter, and substituted for it an Electoral Council consisting of the President and Recording Secretary and seven other members, who are elected annually. After investigation of any candidates nominated for membership in the Society, the Council elects such a number of them as they consider worthy.

A joint meeting of the Stanford and the California Chapters was held September 23, 1905, with a banquet at the California Hotel, San Francisco, in honor of Professor S. W. Williston, Past President of the

National Society. Thirty-three members of the California Chapter and sixteen members of the Stanford Chapter were present. Toasts were responded to by President Jordan and Professors Williston, Wing, Torrey, and Stringham. Professor Miller of Stanford presided.

The first of a proposed series of annual joint meetings of the Stanford and California Chapters of Sigma Xi was to have been held on Saturday, April 21, 1906, at the California Hotel, San Francisco. On account of the fire of April 18, the meeting was indefinitely postponed, and no actual joint meetings have since been held, although the plan is still adhered to.

In view of the fact that the local authorities were doing nothing to combat the spread of bubonic plague through the town of Berkeley, the local Chapter of Sigma Xi actively interested itself in stirring up sentiment to compel the adoption of preventive measures. A special committee was appointed to investigate the conditions actually existing in the region about San Francisco Bay and to report to the Society. They presented an exhaustive review of the situation and made recommendations for its betterment. Inasmuch as public funds were not available for the purpose of sanitary measures, the Chapter started a subscription among its own membership and in a few minutes raised three hundred and twenty-five dollars. This was the beginning of a public subscription for sanitary work in the town of Berkeley, which afterwards amounted to more than ten thousand dollars.

The report of the investigating committee was printed for local distribution, and has since been sent upon request pretty widely throughout the country, to the various health officers. Various clubs and civic organizations throughout the town were organized for the work, public meetings were held, and a live interest in the situation was stirred up throughout the community, with the result that the danger seems to have been completely averted.

In an academic way also the Chapter is taking a very keen interest in local conditions, and after thorough investigation has made recommendations on one or two occasions which have been adopted and carried out by proper authorities in the University.

W. C. M.

PUBLICATIONS

Report, in part, of the Committee of the Society of the Sigma Xi on the Plague Conditions in Berkeley, San Francisco, and Oakland. Published in Eradicating Plague from San Francisco Report of the Citizens' Health Committee and an Account of its Work. March 31, 1909.

OFFICERS FOR 1911–12

President	Mellen W. Haskell
Vice-President	Ruliff Stephen Holway
Recording Secretary	Harvey Monroe Hall
Corresponding Secretary	Edmond O'Neill
Treasurer	Joseph Nisbet LeConte
Councilor	John Campbell Merriam

MEMBERSHIP ROLL

Everette Eugene Adams U 1904 Chicago, Ill.
Civil Engineer with John D. Isaacs

Edwin Larned Adams U 1908 Berkeley, Cal.
Civil Engineer, Associated Transit Company

Edward von Adelung G 1910 Oakland, Cal.
Professor of Medicine, Oakland College of Medicine and Surgery

Alex Adler U 1902
(Deceased 1905)

Robert Grant Aitken F 1907*† Mt. Hamilton, Cal.
Astronomer, Lick Observatory

Sebastian Albrecht G 1904 Córdoba, Argentina
First Astronomer, Observatorio Nacional

William Fitch Allen F 1908 (Stanford A 1907) Minneapolis, Minn.
Instructor in Histology, University of Minnesota

Arthur Carl Alvarez U 1908 Berkeley, Cal.
Instructor in Civil Engineering, University of California

Frank M Anderson G 1909* (Stanford A 1904) Berkeley, Cal.
Geologist, Southern Pacific Railway Company

Leroy Anderson F 1908* (Cornell U 1902) Berkeley, Cal.
Professor of Agriculture, University of California

John Wesley Atkinson G 1910 Betteravia, Cal.
Manager, Union Sugar Company

Ernest Brown Babcock G 1906 Berkeley, Cal.
Assistant Professor of Agricultural Education, University of California

Harold Delos Babcock F 1908 Pasadena, Cal.
Physicist, Mt. Wilson Solar Observatory

Benjamin Allen Baird G 1910 San Francisco, Cal.
Assistant Engineer, City and County of San Francisco

Frank Baird G 1910 Berkeley, Cal.
Metallurgist

Samuel Ellsworth Bailey U 1909 San Francisco, Cal.
Medical Student, University of California

Ned Duncan Baker U 1909 Sacramento, Cal.
Inspector, California State Board of Health

Frank Watts Bancroft F 1902* New York City
Associate, Rockefeller Institute for Medical Research

George Henry Bardsley G 1911 Berkeley, Cal.
Fellow in Physics, University of California

Herbert Aubrey Barre G 1910 New York City
Engineer, Electric Operating Construction Company

Samuel Alfred Barrett G 1910 Milwaukee, Wis.
Curator of Anthropology, Public Museum of Milwaukee

David Prescott Barrows F 1910 Berkeley, Cal.
Professor of Education, University of California

James Milne Barry U 1910 San Francisco, Cal.

Edgar Baruch U 1902 Los Angeles, Cal.
Consulting Chemical Engineer

Bennett Routh Bates G 1908 Los Angeles, Cal.
Miner

Roger Lee Beals G 1910 Rosini, Sinaloa, Mexico
Metallurgist

Scott Ingalls Beaser G 1910 Berkeley, Cal.
Construction Engineer, Kern Trading Oil Company

Henry Ward Beecher U 1906 Seattle, Wash.
Engineer, Charles C. Moore and Company

Benjamin Abram Bernstein F 1909 Berkeley, Cal.
Instructor in Mathematics, University of California

Lynne John Bevan U 1905 Berkeley, Cal.
Miner

Henry Chalmers Biddle F 1903*† Berkeley, Cal.
Assistant Professor of Chemistry, University of California

Adolf Frederick Bittner U 1907 Portland, Ore.
Head, Department of Mathematics, Jefferson High School

Milton Julius Blackman U 1904 San Francisco, Cal.
The Blackman Drug Company

Edwin Mortimer Blake F 1902* (Columbia G 1900) New York City

Walter Charles Blasdale F 1902* Berkeley, Cal.
Associate Professor of Chemistry, University of California

Howard Hamilton Bliss U 1909 San Francisco, Cal.
Head of Physics Department, Cogswell Polytechnical College

George Deroy Blood G 1910 Park City, Utah
Superintendent, Silver King Coalition Mines Company

Frank Fulton Bloomer U 1908 Los Angeles, Cal.
Mechanical Engineer

Alfred August Blowski U 1910 Alameda, Cal.
Chief Chemist, Alameda Sugar Company

Sanford Blum G 1910 San Francisco, Cal.
Physician, Instructor in Pediatrics, University Medical School

John Freeman Bovard U 1903 Eugene, Ore.
Professor of Zoology, University of Oregon

Harold Cornelius Bradley G 1910 Madison, Wis.
Professor of Chemistry, University of Wisconsin

James Chester Bradley G 1907* (Cornell U 1906) Ithaca, N. Y.
Assistant Professor of Entomology, Cornell University

Phillip Reed Bradley G 1910 New York City
Mining Engineer

Townshend Smith Brandegee F 1906 Berkeley, Cal.
Curator of Herbarium, University of California

Simpson Leroy Brown G 1909 Vincennes, Ind.

Warner Brown G 1910 Berkeley, Cal.
Instructor in Psychology, University of California

Spencer Cochrane Browne, Jr U 1906 Oakland, Cal.
Mining Engineer

Harold Child Bryant G 1910 Berkeley, Cal.
Fish and Game Commission Research Fellow, University of California

Alexander Sterling Bunnell U 1907 San Francisco, Cal.
Physician, Instructor in Surgery, University Medical School

Theodore Crété Burnett F 1908 Berkeley, Cal.
Instructor in Physiology, University of California

Herbert Alexander Burns G 1903 Oakland, Cal.
Chemical Engineer, Western Precipitation Company

John Albert Burgess U 1906 Wonder, Nev.
Superintendent, Nevada Wonder Mining Company

George Kimball Burgess F 1902*† Washington, D. C.
Associate Physicist, U. S. Bureau of Standards

Charles Butters G 1910 San Francisco, Cal.
Metallurgist

John Richard Cahill U 1905 San Francisco, Cal.
Consulting Engineer

Frank Cathcart Calkins U 1902* Washington, D. C.
Assistant Geologist, U. S. Geological Survey

William Wallace Campbell F 1902*† Mt. Hamilton, Cal.
Director of Lick Observatory, University of California

Henry Benjamin Carey F 1906 (Minnesota U 1900) San Francisco, [Cal.
Physician and Surgeon

Alfred Joseph Champreux F 1904 San Francisco, Cal.
Pacific Telegraph and Telephone Company

Albert Edward Chandler F 1910 San Francisco, Cal.
Assistant Professor of Institutions of Irrigation

Marvin Lee Chappel G 1910 Point Richmond, Cal.
Chemist

Chin tao Chen G 1910 New Haven, Conn.
Student, Yale University

Victor King Chesnut G 1910 Bozeman, Mont.
Chemist

Samuel Benedict Christy CF 1910*† Berkeley, Cal.
Professor of Mining, University of California

Bruce Lawrence Clark G 1910 Berkeley, Cal.
Instructor in Paleontology, University of California

Frank Cuthbert Clarke U 1911 Berkeley, Cal.
Fellow in University of California

Warren Thompson Clarke F 1906 Berkeley, Cal.
Assistant Professor of Horticulture, University of California

Ernest Winton Cleary G 1910 San Francisco, Cal.

James Sollitt Colbath U 1902 San Francisco, Cal.
Mining Engineer

John Henry Collier G 1910 Haydenhill, Cal.
Superintendent, Lassen Mining Company

Clinton C Conrad U 1910 Berkeley, Cal.

Sidney Bruce Cooper U 1910 Schenectady, N. Y.

William Forest Copeland U 1903 Alameda, Cal.
Mining Engineer

Harvey Wiley Corbett G 1910 New York City
Architect

Clarence Linus Cory CF 1901*† Berkeley, Cal.
Professor of Electrical Engineering, University of California

Frederick Gardner Cottrel F 1903* Berkeley, Cal.
Assistant Professor of Physical Chemistry, University of California

John Walker Craig G 1910 Bulawayo, Rhodesia
Mining Engineer

Russel Tracy Crawford G 1902* Berkeley, Cal.
Associate Professor of Astronomy, University of California

Fred Wilbur Crocker U 1904 Los Angeles, Cal.
Vice-President, Mercerian Bridge and Construction Company

Albert Scott Crossfield U 1910 Pittsburgh, Pa.
Chemist, Bureau of Mines

David Raymond Curtiss G 1910 Evanston, Ill.
Professor of Mathmatics, Northwestern University

Ralph Hamilton Curtiss G 1902* (Michigan G 1907) Ann Arbor, Mich.
Junior Professor of Astronomy, University of Michigan

Emil Frank Cykler U 1911 San Francisco, Cal.
Civil Engineering

Lyman Luther Daines G 1911 Berkeley, Cal.
Fellow in University of California

Arnold Abraham D'Ancona G 1910 San Francisco, Cal.
Dean of College of Medicine, University of California

John Franklin Daniel F 1910 Berkeley, Cal.
Instructor in Zoology, University of California

George Davidson C 1901*† Berkeley, Cal.
Emeritus Professor of Geography, University of California

James Grant Davidson G 1905 Vancouver, B. C.
Professor of Physics, McGill University College

Thomas Andrew Davidson G 1911 Berkeley, Cal.
Fellow in Electrical Engineering, University of California

Robert Geiser Davies G 1911 Berkeley, Cal.
Assistant in Mineralogy and Geology, University of California

Benjamin Marshall Davis G 1903* Oxford, Ohio
Professor of Agricultural Education, Miami University

Donald Walton Davis U 1906 Cambridge, Mass.
Assistant in Zoology, Harvard University

Elmer Fred Davis U 1910 Berkeley, Cal.

Harvey Lewis Davis U 1909 Mesa Grande, Cal.

Clarence Edward Day U 1905 San Francisco, Cal.
Office Assistant, Southern Pacific Railroad

William Peyton Day U 1905 San Francisco, Cal.
Engineer with John B. Leonard

Hiram Delos Densmore G 1906 Beloit, Wis.
Professor of Botany, Beloit College

Charles Derleth, Jr F 1904 Berkeley, Cal.
Professor of Engineering, University of California

Henry Dirvendorf Dewell U 1906 San Francisco, Cal.
Engineer, Galloway and Markwart, Construction Engineers

Fred Austin Dick U 1904 Oroville, Cal.
Western Pacific Railroad

John Leslie Dobbins U 1907 Ely, Nev.
Civil Engineer, Nevada Consolidated Copper Mine

Harrie Carlton Dod U 1910 San Francisco, Cal.

Charles Thomasson Dozier G 1903 Berkeley, Cal.
Mining Engineer

Elmer Reginald Drew G 1910 Palo Alto, Cal.
Professor of Physics, Leland Stanford Junior University

Arthur Eilbert Drucker G 1910 Taracol, Korea
Metallurgical Engineer

Ernest Ingalls Dyer G 1910 San Francisco, Cal.
Chief Engineer, Union Oil Company of California

Arthur Starr Eakle CF 1901*† (Cornell U 1892) Berkeley, Cal.
Assistant Professor of Mineralogy, University of California

Stanley Alexander Easton G 1910 Kellogg, Ida.
Manager, Bunker Hill and Sullivan Mining and Concentrating Company

Adolphus James Eddy U 1910 Berkeley, Cal.
Instructor in Engineering, University of California

Hiram Wheeler Edwards U 1908 Berkeley, Cal.
Assistant in Physics, University of California

Sturla Einarsson F 1906 (Minnesota U 1905) Berkeley, Cal.
Instructor in Astronomy, University of California

Leo Eloesser, Jr G 1910 San Francisco, Cal.
Physician, Assistant in Surgery, University of California

Thomas Sidney Elston F 1904 Berkeley, Cal.
Instructor in Physics, University of California

Saul Epsteen G 1910 (Chicago CF 1903) Boulder, Col.
Professor of Mathematics, University of Colorado

Joseph Erlanger G 1910 (Washington F 1911) St. Louis, Mo.
Professor of Physiology, Washington University

Calvin Olin Esterly U 1902 Los Angeles, Cal.
Professor of Biology, Occidental College

Bernard Alfred Etcheverry U 1902 Berkeley, Cal.
Associate Professor of Irrigation, University of California

Herbert McLean Evans U 1904 Baltimore, Md.
Physician, Johns Hopkins Medical School

Ernest Ellsworth Everett U 1902 Ventura, Cal.
Civil Engineer

Harold Wellman Fairbanks G 1910 Berkeley, Cal.
Geographer and Author

John Randolph Farrell G 1910 San Francisco, Cal.
Mining Engineer

Edward Arthur Fath G 1907 Pasadena, Cal.
Assistant, Mt. Wilson Observatory

Dozier Finley U 1902 Emeryville, Cal.
Assistant Superintendent, Paraffine Paint Company

William Lovell Finley G 1910 Berkeley, Cal.
Lecturer and Author

Martin Henry Fischer F 1903*† Cincinnati, Ohio
Professor of Physiology, University of Cincinnati

Ernest Flammer U 1903 Chicago, Ill.
Western Electric Company

Joseph Marshall Flint F 1902*† New Haven, Conn.
Professor of Surgery, Yale University

Donald Eastman Fogg U 1905 Martinez, Cal.
Superintendent, Peyton Chemical Works

Charles Noyes Forbes U 1908 Honolulu, H. I.
Curator of Herbarium, Bishop Museum

Samuel Fortier F 1904* Washington, D. C.
U. S. Department of Agriculture, Division of Irrigation

Ebert Arnold Foster G 1910 Spokane, Wash.
Mining Engineer

Herbert Bismarck Foster U 1907 Berkeley, Cal.
Sanitary Engineer, University of California

Guy Owen Fraser U 1907 Culebra, C. Z.
Junior Engineer, Isthmian Canal Commission

Eustace Leopold Furlong F 1906 Berkeley, Cal.
Assistant in Paleontology, University of California

Nathaniel Lyon Gardner G 1905 Los Angeles, Cal.
Polytechnic High School

Frederic Parker Gay F 1910 Berkeley, Cal.
Professor of Pathology, University of California

Earl Graham Gaylord U 1911 San Francisco, Cal.
Field Geologist, Southern Pacific Company

George Clark Gester U 1909 Berkeley, Cal.

Pliny Earle Goddard F 1903*† New York City
Anthropologist, American Museum of Natural History

Thomas Harper Goodspeed G 1911 Berkeley, Cal.
Assistant in Botany, University of California

Ralph Amos Gould A 1907* San Francisco, Cal.
Chemist, U. S. Bureau of Chemistry

Alexander Edward Graham G 1907 Berkeley, Cal.
Inspector, U. S. Bureau of Animal Industry

Arthur Wellington Gray F 1905 Washington, D. C.
Assistant Physicist, U. S. Bureau of Standards

William Beckhout Greeley G 1910 Missoula, Mont.
Forester

Joseph Grinnell F 1909 Berkeley, Cal.
Dirctor of Museum of Vertebrate Zoology, University of California

Elmer Edgar Hall F 1902* (Cornell G 1902) Berkeley, Cal.
Associate Professor of Physics, University of California

Harold Morris Hall U 1907 Los Angeles, Cal.
Sales Engineer, General Electric Company

Harvey Monroe Hall G 1902* Berkeley, Cal.
Assistant Professor of Botany, University of California

Irving Hardesty F 1902* New Orleans, La.
Professor of Anatomy, Tulane University

Clarence Melvin Haring F 1905 (Cornell U 1904) Berkeley, Cal.
Assistant Professor of Veterinary Science, University of California

Frank Mason Harris U 1910 Vina, Cal.

Joseph Alexander Hartley U 1907 Los Angeles, Cal.
Secretary, The Braun Corporation

Frederick Addison Harvey U 1905 Syracuse, N. Y.
Assistant Professor of Physics, Syracuse University

Richard Warren Harvey F 1909 Berkeley, Cal.
Instructor in Anatomy, University of California

Mellen Woodman Haskell F 1902*† Berkeley, Cal.
Professor of Mathematics, University of California

Henry Hay G 1910 London, England
Mining Engineer

Carl Edward Heise G 1910 San Francisco, Cal.

William Brodbeck Herms F 1908 (Ohio G 1906) Berkeley, Cal.
Assistant Professor of Entomology, University of California

Henry Nathan Herrick U 1907 Berkeley, Cal.
Assistant in Mining, University of California

Frederic Charles Herrmann G 1910 Calexico, Cal.
Engineer, California Development Company

Ernest Albion Hersam F 1902* Berkeley, Cal.
Associate Professor of Metallurgy, University of California

Frederick Godfray Hesse CF 1901
(Deceased)

Eugene Waldemar Hilgard CF 1901*† Berkeley, Cal.
Emeritus Professor of Agriculture, University of California

Bruce Vickroy Hill F 1903 Chicago, Ill.
Bell Telephone Company

Clarence Floyd Hirshfeld G 1910 (Cornell G 1903) Ithaca, N. Y.
Professor of Gas Power Engineering, Cornell University

Carl Leslie Hoag G 1910 San Francisco, Cal.
University Hospital

Fred Miller Hofer G 1911 Kellogg, Ida.
Mining Engineer

George Jacob Hoffman G 1910 Oakland, Cal.
Mining Engineer

Karl Frederick Hoffman G 1910 Johannesburg, South Africa
Mining Engineer

Ross Browne Hoffman G 1910 Oakland, Cal.
Consulting Engineer

Samuel Jackson Holmes G 1909 Madison, Wis.
Assistant Professor of Zoology, University of Wisconsin

Ruliff Stephen Holway F 1907 Berkeley, Cal.
Assistant Professor of Geography, University of California

Henry Horn G 1891 San Francisco, Cal.
Physician

William T Horne F 1911 Berkeley, Cal.
Assistant Professor of Plant Pathology, University of California

Walter Leroy Huber U 1905 San Francisco, Cal.
Engineer, U. S. Forest Service

Loren Edward Hunt F 1907 San Francisco, Cal.
Engineer, City Engineer's Office

Dwight Brunell Huntley G 1910 Oakland, Cal.
Mining Engineer

Charles Gilman Hyde F 1906 Berkeley, Cal.
Professor of Engineering, University of California

Eugene Law Ickes U 1909 Los Angeles, Cal.
Mining Engineer

Samuel Irving G 1910 Berkeley, Cal.
Manager, Paraffine Paint Company

Abraham Wendell Jackson G 1910 New York City

Gaskell Samuel Jacobs U 1909 San Francisco, Cal.
Engineer, J. G. White and Company

Myer Edward Jaffa F 1906† Berkeley, Cal.
Professor of Nutrition, University of California

Willis Linn Jepson CF 1901* (Cornell G 1895) Berkeley, Cal.
Associate Professor of Botany, University of California

Frank Edward Johnson G 1910 Berkeley, Cal.
Instructor in Soils, University of California

Fred Lyle Johnston U 1902 Santa Barbara, Cal.
City Engineer

Harry James Kesner F 1910 Berkeley, Cal.
Instructor in Engineering, University of California

Alson Raphael Kilgore U 1909 Boston, Mass.
Student at Harvard Medical School

Eugene Sterling Kilgore G 1910 Berkeley, Cal.
Medical Examiner, University of California

Arthur Scott King G 1902 Pasadena, Cal.
Director of Laboratory, Mt. Wilson Observatory

Robert Allen Kinzie G 1910 Alaska
Superintendent, Treadwell Mine

Frank Louis Kleeberger U 1908 Tucson, Ariz.
Instructor in Chemistry, University of Arizona

Adolph Knopf U 1904 Washington, D. C.
Geologist, U. S. Geological Survey

Charles Atwood Kofoid F 1902*† Berkeley, Cal.
Professor of Zoology, University of California

Herman Kower F 1902 Berkeley, Cal.
Associate Professor of Drawing, University of California

Charles August Kraus G 1902 Boston, Mass.
Research Assistant, Massachusetts Institute of Technology

Walter Carl Krenz U 1908
(Deceased 1910)

Alfred Louis Kroeber F 1903*† Berkeley, Cal.
Assistant Professor of Anthropology, University of California

Charles Kuschke F 1909 Berkeley, Cal.
Instructor in Mathematics, University of California

Arthur Lachman G 1910 San Francisco, Cal.
Merchant

Fred Laist G 1910 Anaconda, Mont.
Chemist

Cornelius B Lakenan G 1910 Ely, Nev.
General Manager, Nevada Consolidated Copper Company

Herbert Oliver Lang G 1910 Oakland, Cal.
Mining Engineer

Esper Signius Larsen, Jr U 1906 Washington, D. C.
Assistant Petrographer, U. S. Geological Survey

Anstruther Abercrombie Lawson G 1910 Edinburgh, Scotland
Botanist

Andrew Cowper Lawson CF 1908*† Berkeley, Cal.
Professor of Geology, University of California

Joseph Nisbet LeConte CF 1901 (Cornell G 1892) Berkeley, Cal.
Associate Professor of Engineering, University of California

Derick Norman Lehmer F 1903* (Nebraska, G 1899) Berkeley, Cal.
Associate Professor of Mathematics, University of California

Felix Lengfeld G 1910 San Francisco, Cal.

Armin Otto Leuschner CF 1901*† Berkeley, Cal.
Professor of Astronomy, University of California

Exum Percival Lewis F 1902* Berkeley, Cal.
Professor of Physics, University of California

William Henry Linney G 1910 Spokane, Wash.
Mining Engineer

Charles Bernard Lipman G 1909 Berkeley, Cal.
Assistant Professor of Soils, University of California

Walter Colton Little U 1911 San Francisco, Cal.
Civil Engineering

Jacques Loeb F 1903*† New York City
Member, Rockefeller Institute for Medical Research

Maurice Ennis Lombardi G 1910 Berkeley, Cal.
Superintendent of Construction, Kern Trading Oil Company

Joseph Abraham Long F 1908 Berkeley, Cal.
Instructor in Zoology, University of California

George Davis Louderback F 1906* Berkeley, Cal.
Associate Professor of Geology, University of California

Robert Hills Loughridge F 1904* Berkeley, Cal.
Emeritus Professor of Chemistry, University of California

Thomas Calvin MacKay F 1905* Socorro, N. M.
Professor of Physics, New Mexico State School of Mines

James Davis Maddrill G 1904* Ukiah, Cal.
Astronomer in Charge, International Latitude Observatory

William Henry Markley U 1906 Turlock, Cal.
Farmer

Arthur Hermann Markwart G 1904 San Francisco, Cal.
Civil Engineer, Galloway and Markwart

Samuel Steen Maxwell F 1906* Berkeley, Cal.
Associate Professor of Physiology, University of California

Alexander George McAdie A 1907*† San Francisco, Cal.
Professor of Meteorology, U. S. Weather Bureau

John Bruce McCallum F 1904*
(Deceased 1906)

Carl Howard McCharles U 1909 Berkeley, Cal.
Instructor in Chemistry, University of California

William Clyde McDonald U 1909 San Francisco, Cal.
Superintendent, Warren Brothers Company

Elwood Mead F 1903*† Melbourne, Australia
Chief of Victoria Water Commission

William Wallace Mein G 1910 Johannesburg, South Africa
Consulting Engineer

Abraham Louis Menzin U 1907 San Francisco, Cal.
Engineer, Tracy Engineering Company

John Campbell Merriam F 1902*† Berkeley, Cal.
Associate Professor of Paleontology, University of California

Charles Washington Merrill G 1910 San Francisco, Cal.
Metallurgist

William Ferdinand Meyer G 1908 Berkeley, Cal.
Instructor in Astronomy, University of California

Ellis Lercy Michael G 1908 La Jolla, Cal.
Naturalist, Marine Biological Station

Irving Miller G 1910 Los Angeles, Cal.
Instructor in Mathematics, California School

Loye Holmes Miller G 1902 Los Angeles, Cal.
Professor of Biology, Head of Science Department, State Normal School

Ralph Smith Minor F 1904* Berkeley, Cal.
Associate Professor of Physics, University of California

Ralph Thomas Mishler U 1905 Mexico
Mining Engineer, Antimony Trust Company

Herbert Charles Moffit G 1910 San Francisco, Cal.
Physician

Robert Orton Moody F 1902* (Cornell F 1901) Berkeley, Cal.
Assistant Professor of Anatomy, University of California

Wilber Ladde Moody U 1911 San Francisco, Cal.
Geologist

Arthur Russell Moore F 1911 Berkeley, Cal.
Assistant Professor of Physiology, University of California

Fremont Morse G 1910 Berkeley, Cal.

Fred Wellington Morse G 1910 Oakland, Cal.
Physician

James Daniel Mortimer G 1910 New York City
Electrician

William Conger Morgan CF 1901*† (Yale U 1896) Berkeley, Cal.
Assistant Professor of Chemistry, University of California

Sanford Alexander Moss G 1910 West Lynn, Mass.
Mechanical Engineer, General Electric Company

William Warner Mott U 1905 Berkeley, Cal.

Albert Henry Mowbray U 1904 Raleigh, N. C.
Actuary, North Carolina Insurance Company

Charles Harper Munro G 1910 San Francisco, Cal.
Mining Engineer

Arthur Charles Nahl G 1910 Triunfo, Baja Cal., Mex.
General Manager, Progreso Mining Company

Nels Christian Nelson G 1908 New York City
Assistant Curator, American Museum of Natural History

Joseph Newfield U 1902 San Francisco, Cal.
Drug Manufacturer

Burt Leroy Newkirk F 1903* (Minnesota G 1898) Minneapolis, [Minn.
Assistant Professor of Mathematics, University of Minnesota

John Carroll Nichols G 1910 Benoni, Transvaal

Maurice Barstow Nichols G 1908 Oakland, Cal.
Teacher of Botany, High School

Charles Albert Noble F 1902* Berkeley, Cal.
Associate Professor of Mathematics, University of California

Grover Chester Noble U 1902 Berkeley, Cal.
Assistant Professor of Engineering, University of California

Robert Stewart Norris G 1910 Honolulu, H. I.
Chemist, Sugar Planters' Association

Perley Gilman Nutting G 1910 Washington, D. C.
Physicist, U. S. Bureau of Standards

Edwin Letts Oliver G 1910 Grass Valley, Cal.
Metallurgist

Ernest Warner Oliver G 1910 Los Angeles, Cal.
Teacher, High School

Edmond O'Neill CF 1903*† Berkeley, Cal.
Professor of Chemistry, University of California

Harry Jonas Oser U 1908 San Francisco, Cal.
Engineer, Oser Brothers

William Lincoln Oser U 1909 Berkeley, Cal.
Engineer, Oser Brothers

Vance Craigmiles Osmont G 1903 San Francisco, Cal.
Mining Engineer

Winthrop John Vanleuven Osterhout CF 1902* Cambridge, Mass.
Assistant Professor of Botany, Harvard University

Karl Wolfgang Ostwald G 1906 Berlin, Germany
Privat Docent, University of Berlin

Robert Wallace Pack U 1908 Washington, D. C.
Assistant Geologist, U. S. Geological Survey

Charles Palache A 1907* Cambridge, Mass.
Assistant Professor of Mineralogy, Harvard University

Harold King Palmer G 1902* Los Angeles, Cal.
Junior Engineer, U. S. Indian Irrigation Service

Theodore Sherman Palmer G 1910 Washington, D. C.
Assistant Chief, U. S. Biological Survey

George Cooper Pardee G 1910 Oakland, Cal.
Oculist

William Bell Parker U 1911 Berkeley, Cal.
Entomologist

Louis Alexander Parsons F 1905* Gettysburg, Pa.
Professor of Physics, Pennsylvania College

Vyacheslav Petrovsky G 1911 Berkeley, Cal.
Assistant in Physics, University of California

William Charles Peyton G 1911 San Francisco, Cal.
Chemist

Robert Dickson Pike U 1907 Los Angeles, Cal.
C. W. Pike Company

Juan de la Cruz Posada G 1910 Medellin, Colombia

Frederic Ward Putnam F 1903*† Cambridge, Mass.
Professor Emeritus of Anthropology, Harvard University

Thomas Milton Putnam F 1904* Berkeley, Cal.
Assistant Professor of Mathematics, University of California

Henry Josef Quayle F 1911 Berkeley, Cal.
Assistant Professor of Entomology, University of California

Thomas Wells Ransom G 1910 San Francisco, Cal.
Consulting Engineer

Frederick Leslie Ransome A 1906*† Washington, D. C.
Geologist, U. S. Geological Survey

Walter Harris Ratcliff U 1903 Berkeley, Cal.
Architect, Ratcliff and Jacobs

William James Raymond F 1905* Berkeley, Cal.
Associate Professor of Physics, University of California

William Henry Rees G 1910 Alvarado, Cal.
Chemist

Herman White Reynolds F 1909 Berkeley, Cal.
Associate Professor of Engineering, University of California

Charles Pierce Richmond U 1902 Pomona, Cal.
Mining Engineer

Wallace Clifford Riddell U 1911 Berkeley, Cal.
Chemist

Willard Bradley Rising F 1902*†
(Deceased 1910)

William Emerson Ritter CF 1901*† La Jolla, Cal.
Director, Marine Biological Station

Edward Austin Rix G 1910 San Francisco, Cal.
President, Rix Compressed Air and Drill Company

Emmet Rixford G 1910 San Francisco, Cal.
Surgeon

Oswald Hope Robertson U 1910 Oakland, Cal.

Thorburn Brailsford Robertson F 1906 Berkeley, Cal.
Associate Professor of Chemistry, University of California

John Wooster Robertson G 1910 Livermore, Cal.
Physician, Owner of Livermore Sanitarium

Wendell Prescott Roop G 1909 Berkeley, Cal.
Assistant in Physics, University of California

Frank Elmore Ross G 1910 Gaithersburg, Md.
Astronomer, Internatonal Geodetic Association

Herbert William Ross U 1905 Casapalco, Peru
Metallurgist, Backus and Johnston Company

Glanville Yeisley Rusk F 1911 Berkeley, Cal.
Assistant Professor of Pathology, University of California

Yasudiro Sakac U 1904 Kurume, Japan
Mechanical Engineer

Joseph A Sampson U 1910 San Francisco, Cal.

Augustus Valentine Saph F 1902 (Cornell G 1902) San Francisco, Cal.
Civil Engineer with John Leonard

Wilbur Augustus Sawyer F 1911 Berkeley, Cal.
Director, State Hygienic Laboratory

Waldemar Theodore Schaller A 1908* Washington, D. C.
Mineralogist, U. S. Geological Survey

Andrew D Schindler G 1910 San Francisco, Cal.

Carl Louis August Schmidt U 1908 San Francisco, Cal.
Chemist, Metropolitan Gas Company

Walter August Schmidt U 1906 Los Angeles, Cal.
Engineer, Western Precipitation Company

Fred Hanley Seares G 1910* Pasadena, Cal.
Astronomer, Mt. Wilson Observatory

Fred Hanley Seares, Jr U 1909 Pasadena, Cal.
Astronomer

William Albert Setchell CF 1901*† (Yale CF 1895) Berkeley, Cal.
Professor of Botany, University of California

Harold Gibbons Sharp U 1906 San Francisco, Cal.
Chief Engineer, Duncanson-Harrelson Company

Leslie Theodore Sharp U 1911 Berkeley, Cal.
Assistant in Soils, University of California

Robert Guy Sharp U 1911 Berkeley, Cal.
Assistant in Zoology, University of California

William John Sharwood F 1904 Lead, S. D.
Chief Chemist, Homestake Mining Company

Edgar Raymond Shepard G 1904 Corvallis, Ore.
Instructor in Physics, Oregon Agricultural College

Robert Sibley U 1903 Missoula, Mont.
Professor of Engineering, University of Montana

William John Sinclair G 1902 Princeton, N. J.
Instructor in Geology, Princeton University

Frederick Slate CF 1902* Berkeley, Cal.
Professor of Physics, University of California

Felix Teisseire Smith U 1908 Berkeley, Cal.
Attorney

Ralph Elliott Smith F 1905* Berkeley, Cal.
Professor of Botany, University of California

William Sydney Tangier Smith G 1910 Reno, Nev.
Professor of Geology, University of Nevada

Harry Caesar Solomon U 1910 Boston, Mass.

Frank Soulé CF 1902 Berkeley, Cal.
Emeritus Professor of Engineering, University of California

James Clarence Sperry G 1910 Coalinga, Cal.
Field Manager, Crocker's Oil Wells

Harry Edwin Squire U 1906 Bremerton, Wash.
Engineer, Erection Construction Company

Henry Walter Stager F 1909* Fresno, Cal.
Instructor in Mathematics, Fresno Junior College

Alva Walker Stamper G 1910* Chico, Cal.
Head of Mathematics, State Normal School

Charron Monell Staples U 1911 Ashland, Ore.
Mining Engineer

Joel Stebbins G 1902* (Nebraska, G 1899) Urbana, Ill.
Assistant Professor of Astronomy, University of Illinois

Edward Lewis Stenger G 1908 Keswick, Cal.
Mine Surveyor, The Mountain Copper Company, Ltd.

John Maxson Stillman G 1910* Palo Alto, Cal.
Professor of Chemistry, Leland Stanford Junior University

Howard Stillman G 1910 Berkeley, Cal.
Mechanical Engineer

Norman Caswell Stines U 1905 Berkeley, Cal.
Engineer

William Benson Storey G 1910 Chicago, Ill.
Civil Engineer, Atchison, Topeka and Santa Fe Railroad Company

George Malcolm Stratton F 1903*† Berkeley, Cal.
Professor of Psychology, University of California

Irving Stringham CF 1901*†
(Deceased 1909)

Arnold Valentine Steubenrauch F 1902 Washington, D. C.
Bureau of Plant Industry

Leslie Webb Symmes G 1910 San Francisco, Cal.
Agricultural Engineer

Alonzo Englebert Taylor F 1900*† Philadelphia, Pa.
Professor of Chemistry, University of Pennsylvania

Henry William Taylor U 1906 Albany, N. Y.
Sanitary Engineer, State Architect's Office

Walter Penn Taylor U 1911 Berkeley, Cal.
Assistant Curator of Mammals, University Museum of Vertebrate Zoology

Wallace Irving Terry G 1910 San Francisco, Cal.
Assistant Professor of Surgery, University of California Medical School

Bartlett Leo Thane G 1910 Juneau, Alaska
Kensington Mining Company

Paul Thelen U 1904 San Francisco, Cal.
Expert, Southern Pacific Company

Rolf Thelen U 1904 Madison, Wis.
Engineer, U. S. Bureau of Forestry

Carl Clapp Thomas F 1903*† (Cornell G 1895) Madison, Wis.
Professor of Engineering, University of Wisconsin

Frederick Horace Tibbetts G 1907 Berkeley, Cal.
Assistant Professor of Engineering, University of California

Lucius Moody Tolman G 1910 Washington, D. C.
Chemist, U. S. Department of Agriculture

Harry Beal Torrey F 1902* Berkeley, Cal.
Associate Professor of Zoology, University of California

Alphonso Walker Tower U 1905 Los Angeles, Cal.
Head of Department of Physiology, Polytechnic High School

Sidney Dean Townley F 1902* (Stanford F 1907) Palo Alto, Cal.
Associate Professor of Mathematics, Leland Stanford Junior University

Joseph Prince Tracy U 1904 Eureka, Cal.
Belcher and Crane Company

Wilfred Charles Twiss G 1911 Salt Lake City, Utah
Instructor in Botany, University of Utah

Edwin Cooper VanDyke G 1910 San Francisco, Cal.
Physician

Harry Chittenden Vensano U 1903 San Francisco, Cal.
Civil Engineer, Pacific Gas and Electric Corporation

Frederick Paul Vickery U 1905 Martinez, Cal.
Peyton Chemical Works

Archibald Robinson Ward CF 1901* (Cornell U 1898) Manila, P. I.
Dean, College of Veterinary Science, University of the Philippines

Thomas Talbot Waterman F 1911 Berkeley, Cal.
Instructor in Anthropology, University of California

Wilbur Kemble Watkins U 1908 Halleck, Cal.
Superintendent, Golden State Portland Cement Company

Floyd Rowe Watson G 1910 Urbana, Ill.
Assistant Professor of Physics, University of Illinois

Charles Edwin Weaver G 1905 (Washington, F 1908) Seattle, Wash.
Instructor in Geology, University of Washington

Harry Howard Webb G 1910 London, Eng.
Mining Engineer

Charles Albert Weck G 1910 Yerington, Nev.
Superintendent, Bluestone Mining and Smelting Company

Harry Valentine Welch G 1911 San Francisco, Cal.
Assistant Physical Chemist, U. S. Bureau of Mines

Chester Albert Garfield Weymouth U 1902 Berkeley, Cal.
Cement Contractor

Clarence Raymond Weymouth G 1910 San Francisco, Cal.
Chief Engineer, Charles C. Moore and Company

Ralph Archibald White U 1911 Berkeley, Cal.
Instructor in Civil Engineering, University of California

Albert Wurts Whitney F 1906* Berkeley, Cal.
Associate Professor of Mathematics, University of California

Charles Abel Whitton U 1910 Oakland, Cal.

William Wakefield Whitton U 1905 Oakland, Cal.
Mining Engineer

Edward James Wickson F 1905*† Berkeley, Cal.
Dean of Agriculture, University of California

Ernest Julius Wilczynski F 1902* Chicago, Ill.
Associate Professor of Mathematics, University of Chicago

Alpheus Fuller Williams G 1910 Kimberley, South Africa
General Manager, De Beers Consolidated Mines

Gardner Fred Williams G 1910 Washington, D. C.
Engineer, retired

John Winkler G 1910 Berkeley, Cal.
Assistant in Chemistry, University of California

James Hugh Wise U 1903 San Francisco, Cal.
Engineer, Pacific Gas and Electric Corporation

Harry Lincoln Wollenberg U 1908 Juneau, Alaska
Miner

Harry Oscar Wood F 1909 Berkeley, Cal.
Instructor in Geology, University of California

Baldwin Munger Woods G 1910 Berkeley, Cal.
Instructor in Mathematics, University of California

Charles William Woodworth F 1903* Berkeley, Cal.
Associate Professor of Entomology, University of California

Albert Eugene Wright U 1907 Provo, Utah
Fruit Grower

Carey Thomas Wright G 1911 Oakland, Cal.
Head of Science Department, John C. Freeman High School

William Hammond Wright F 1902*† Mt. Hamilton, Cal.
Astronomer, Lick Observatory

George Joseph Young G 1910* Reno, Nev.
Professor of Mining, University of Nevada

Carl Gotthelf Zschockelt U 1908 Quincy, Cal.
Operator of Power Station

COLUMBIA CHAPTER

COLUMBIA UNIVERSITY, NEW YORK CITY

Charter Dated December 1, 1902 Chapter Installed December 19, 1902

HISTORICAL SKETCH

For more than a year before the charter was granted to the Chapter of Sigma Xi at Columbia University, the matter of petitioning the Council of the Society was under discussion. The subject was especially agitated by Lucien M. Underwood, Professor of Botany, and James F. Kemp, Professor of Geology, the latter having been initiated at Cornell during the first year of the Society's existence. Columbia was by this time well established at its new site and the conditions were ripe to carry the petition through. It was finally drawn up and signed by the following members of the faculty in the order given—

James F. Kemp, (Cornell Chapter)
William J. Gies, (Yale Chapter)
Edmund B. Wilson
Henry Fairfield Osborn
Robert S. Woodward
Lucien M. Underwood
William Hallock
James McKeen Cattell
Livingston Farrand
Charles F. Chandler
John K. Rees
Henry E. Crampton
James H. McGregor
George A. Lawrence
Gary N. Calkins
Alfred J. Moses
Bashford Dean
Marston T. Bogert
Walter S. Sutton (Kansas Chapter)
Charles Zeleny (Minnesota Chapter)
Austin F. Rogers (Kansas Chapter)
A. H. Blanchard (Brown Chapter)

The first meeting was held on December 19, 1902, in the library of the Department of Zoology. Almost all the signers of the petition were present and several additional officers or students of the University who were members of other chapters. The Charter which had been granted by the Council of the Society on December 1 was presented to the new group by Professor Edward L. Nichols of Cornell University, Chairman of the Council, and by him the Chapter was duly installed. The Chapter thereupon organized by electing the following officers:

President: James F. Kemp
Vice-President: Lucien M. Underwood
Recording Secretary: George Alfred Lawrence
Corresponding Secretary: Marston T. Bogert
Treasurer: William Hallock
Member of the Council: Henry E. Crampton

In the evening a dinner was given by the members of the Chapter in honor of Professor Edward L. Nichols who had installed the new branch of the Society.

In 1905 the Chapter appointed a committee to select representatives from former classes among the alumni to be recommended for membership in the Society. A conservative canvass was made which resulted in the Chapter electing forty-three alumni.

It is the custom of the Columbia Chapter to recruit its membership chiefly from senior classes in the Schools of Engineering and Chemistry, from graduate students in pure science and from the instructional staff in all scientific and engineering departments.

The Chapter has confined its regular activities to a few scientific meetings each year at which times some provision is usually made for a social hour. A good deal of care is taken in planning the initiation ceremonies and these have grown to be rather formal affairs. There are usually delegates from two or three neighboring chapters whose presence adds much to the dignity of the occasion. At the last initiation (1911) the Cornell, the University of Pennsylvania, and the Yale Chapters were represented.

At regular scientific meetings there is never more than one title on the program. The object is to secure the presentation of some investigation or research or a comprehensive summary of some special field. The following list will serve to indicate the scope of these discussions:

Protozoa and Disease by Professor Gary N. Calkins.

Radium and its Relations to the Structure of the Atom by Professor William Hallock.

The Panama Canal by Professor William H. Burr.

Perilous First Ascents in the Selkirks of British Columbia by Professor Herschel C. Parker.

Microscopic Examination of Opaque Substances by Professor William Campbell.

Use of Denatured Alcohol as a Fuel by Professor Charles E. Lucke.

A Zoologist's Visit to the Society Islands by Professor Henry E. Crampton.

Recent Aspects of Plant Breeding and Variation by Doctor George H. Shull.

Recent Improvements in Incandescent Lighting by Professor Herschel C. Parker and Mr. Walter G. Clark.

The Selective Reflection in the Infra-red Charasteristic of Carbonates and its Relation to the Atomic Weights of the Bases by Doctor Leighton B. Morse.

Recent Progress in Electro-Chemistry by Professor Charles F. Chandler.

The Genesee River and its Bearing on the Problems of the Great Lakes by Professor Amandeus W. Grabau.

Modern Practice in Color Photography by Mr. Alfred Norton Goldsmith.

The Quebec and the Blackwell's Island Cantilever Bridges by Professor William H. Burr.

The Sanitary Protection of Tidal Waters by Doctor George A. Soper.

Exploratory Travels in the Olympic Mountains of Washington by Professor Herschel C. Parker.

Additional Water Supply from the Catskill Mountains by Professor William H. Burr.

Heredity and the Cell by Professor Edmund B. Wilson.

Electric Lighting of a Great City by Professor George F. Sever.

Many addresses of a less formal nature designed especially to add to the enjoyment or entertainment of the Chapter have been delivered in connection with the initiation ceremonies and other special occasions.

The Chapter is firmly established at Columbia. To be elected to its membership is considered a special honor. In an institution where there are so many other channels for announcing and publishing scientific investigations and where societies in every branch of science and engineering are maintained in active operation there has seemed to be no immediate call for Sigma Xi to undertake the burden of publication or to place much emphasis on the fostering of the scientific spirit. It is rather a scientific fellowship in which all branches and all interests unite and find encouragement.

C. P. B.

PUBLICATIONS

Columbia Chapter (Kappa) of the Society of the Sigma Xi. Founded 1903. Constitution and By-Laws of the General Society, list of Officers and Members, titles of papers read at meetings. May 1907. Lancaster, Pa. pp. 49.

OFFICERS FOR 1911-12

President.....George Francis Sever
Vice-President.....Arthur Lucian Walker
Recording Secretary.....Samuel Alfred Mitchell
Corresponding Secretary.....Charles Peter Berkey
Treasurer.....Samuel Alfred Mitchell
Councilor.....Carlton Clarence Curtis

MEMBERSHIP ROLL

Hanford Curtis Adams — U 1908 — West Palm Beach, Fla.
Electrical Engineer

Arthur Aigeltinger — U 1907 — New York City
Electrical Engineer, Manganese Steel Rail Company

Carl Gustave Amend — G 1909 — New York City
Chemist

Morton Arendt — G 1905* — New York City
Assistant Professor of Electrical Engineering, Columbia University

Huntington Clark Atwater — U 1907 — Denver, Col.
Civil Engineer

Frank Ashton Ayer — U 1911 — Morenci, Ariz.
Mining Engineer, Detroit Copper Company

George Baehr — U 1908 — New York City
Assistant in Pathology, Mt. Sinai Hospital

Joseph Hershey Bair — G 1903* (Colorado CF 1905) — Philadelphia, Pa.
Private Research

Walter Loring Barrows — G 1909 — Hartford, Conn.
Professor of Geology, Trinity College

George Denton Beal G 1910 (Illinois F 1911) Urbana, Ill.
Instructor in Chemistry, University of Illinois

Hal Truman Beans G 1903 New York City
Instructor in Organic Chemistry, Columbia University

Harold Mairs Beattie U 1907 Chicago, Ill.
Superintendent, Hills Linseed Oil Company

George Erle Beggs U 1910 New York City
Civil Engineer

Marcus Benjamin A 1905*† Washington, D. C.
Editor, United States National Museum

Henry Kreitzer Benson G 1907* (Washington CF 1907) Seattle, Wash.
Associate Professor of Chemistry, University of Washington

William Nathan Berg G 1906* Washington, D. C.
Chemist, Bureau of Animal Industry

Charles Peter Berkey G 1904* (Minnesota F 1906) New York City
Assistant Professor of Geology, Columbia University

Albin H Beyer U 1905 Brooklyn, N. Y.
Civil Engineer

Maurice Alpheus Bigelow G 1905*† New York City
Professor of Biology, Teachers College, Columbia University

Paul Billingsley G 1910 Butte, Mont.
Geologist, Anaconda Copper Mining Company

Adolph Black G 1903 New York City
Assistant Professor of Civil Engineering, Columbia University

Frederic Columbus Blake G 1904* Columbus, Ohio
Assistant Professor of Physics, Ohio State University

Arthur Horace Blanchard CF 1903* (Brown CF 1900) New York City
Professor of Engineering, Columbia University

Franz Boas G 1903*† New York City
Professor of Anthropology, Columbia University

Richard Frederick Böhler G 1907 Vienna, Austria
Metallurgical Engineer, Böhler Steel Company

Marston Taylor Bogert CF 1903*† New York City
Professor of Organic Chemistry, Columbia University

Myrick Nathaniel Bolles G 1904* Monterey, Mexico
Metallurgist, American Smelting and Refining Company

Stanley Frank Bond U 1907 Long Island City, N. Y.
Electrical Engineer, Queens County Electric Light and Power Company

Kitchell Monckton Boorman U 1910 New York City
Civil Engineer, F. de P. Hone and Company

Albert Clarence Boyle, Jr G 1908 Laramie, Wyo.
Professor of Geology, University of Wyoming

Clement S Brainin G 1909 New York City
Assistant in Physics, Columbia University

Clinton Brettell U 1911 Bridgeport, Conn.
Mechanical Engineer

Robert Wesley Briggs U 1911 New York City
Assistant in Civil Engineering, Columbia University

Nathaniel Lord Britton G 1905*† New York City
Director, New York Botanical Garden, Bronx Park

Thomas Clachar Brown G 1906* State College, Pa.
Assistant Professor of Geology, Pennsylvania State College

Kenneth Caulfield Browne U 1910 New York City
Mining Engineer

Charles Thomas Brues G 1903* Cambridge, Mass.
Instructor in Economic Entomology, Harvard University

William Hubert Burr G 1903*† New York City
Professor of Civil Engineering, Columbia University

Russell Burton-Opitz G 1903*† New York City
Associate Professor of Physiology, College of Physicians and Surgeons

Gary Nathan Calkins CF 1903*† New York City
Professor of Zoology, Columbia University

William Campbell G 1904* New York City
Associate Professor of Metallurgy, Columbia University

Frederick A Canfield A 1905 Dover, N. J.
Mining Engineer

Robert Andrew Wood Carleton U 1904 Edgewater, N. J.
Civil Engineer

William Morgan Carpenter U 1909 Albany, N. Y.
Civil Engineer, New York Central Railroad

Victor Hugo Carples U 1910 New York City
Sales Manager, L. J. Wing Manufacturing Company

Homer Lyman Carr U 1910 New York City
Mining Engineer

Alfred Ellsworth Carter U 1904 New York City
Civil Engineer, Rapid Transit Subway Construction Company

Albert Hermon Case G 1906 Copper Hill, Tenn.
Acting Manager, Tennessee Copper Company

Jules Catherinet G 1904

James McKeen Cattell CF 1903*† New York City
Professor of Psychology, Columbia University

Reginald Wadsworth Cauchois U 1907 New York City
Electrical Engineer, Johnson and Higgins

Peter Bragio Cerussi U 1909 New York City
Electrical Engineer

Victor John Chambers G 1903* Rochester, N. Y.
Professor of Chemistry, University of Rochester

Charles Frederick Chandler CF 1903*† New York City
Professor of Chemistry, Columbia University

John Parke Channing A 1905 New York City
Consulting Mining Engineer

Elihu Cunyngham Church G 1910 New York City
Civil Engineer, City Department of Water, Gas and Electric Supply

John Adams Church U 1906† Great Falls, Mont.
Engineer, Anaconda Copper Mining Company

Lawrence Ripley Clapp U 1910 Silverton, Col.
Superintendent, Silver Lake Mines

Ernest Dunbar Clark G 1910 New York City
Instructor in Biological Chemistry, College of Physicians and Surgeons

Frederick Huntington Clark U 1907 New York City
Mining Engineer

Sidney Milton Clark U 1911 New York City
Assistant Manager, Engineering Supervision Company

Edward Bernard Coburn G 1903 (Union G 1888) New York City
Physician

Jules Auguste Coelos U 1904 New York City
Civil Engineer

Albert Ladd Colby A 1905*† South Bethlehem, Pa.
Iron and Steel Metallurgist

George Frederick Comstock U 1909 Pittsburgh, Pa.
Metallurgical Engineer, Crucible Steel Company of America

Frederick Stephen Cook U 1905 Joplin, Mo.
Mining Engineer

Melville Fuller Coolbaugh G 1905 Rapid City, S. D.
Professor of Chemistry, South Dakota School of Mines

William Wakefield Corbet U 1903 (Yale U 1900) Brookville, Pa.
Mining Engineer

Henry Edward Crampton CF 1903* New York City
Professor of Zoology, Columbia University

Francis Bacon Crocker G 1903*† New York City
Professor of Electrical Engineering, Columbia University

Burrill Bernard Crohn U 1907 New York City
Physician, Mt. Sinai Hospital

Francis Sterling Crowell U 1905 Mechanicville, N. Y.
Assistant Engineer, Barge Canal Office

Frederick Van Dyke Cruser G 1904 Barberton, Ohio
Chemist, Diamond Match Company

Carleton Clarence Curtis G 1903*† New York City
Associate Professor of Botany, Columbia University

John Greenleaf Curtis G 1903* New York City
Professor of Physiology, College of Physicians and Surgeons

Joseph Louis Danziger G 1903 Montreal, Canada
Chemist, Behrend Concentrators

Bergen Davis G 1903* New York City
Assistant Professor of Physics, Columbia University

William Schofield Day G 1906* New York City
Lecturer in Physics, Columbia University

Bashford Dean CF 1903* Riverdale, N. Y.
Professor of Zoology, Columbia University

Carl Henry Decker U 1904 La Moille, Ill.
Mining Engineer

Arthur Isadore Dehuff U 1907 Metaline, Wash.
Mining Engineer

Norman Arthur Deiser U 1911 Brooklyn, N. Y.
Civil Engineer

Frederick S Dellenbaugh, Jr U 1910 East Orange, N. J.
Electrical Engineer

Walter Taubert Derleth U 1904 New York City
Civil Engineer

Ernest Hesthcote Dickenson U 1911
Mining Engineer

Charles William Dickson G 1903* Kingston, Ont.
Lecturer in Chemistry, School of Mines

Norman Edward Ditman G 1909 New York City
Physician

Francis Despard Dodge A 1905 Bayonne, N. J.
The Dodge and Olcott Company

Richard Elwood Dodge G 1905* New York City
Professor of Geography, Teachers College, Columbia University

Percy Williams Donovan U 1905 Brainerd, Minn.
Mining Engineer and Superintendent, E. J. Longyear Company

Clarence Gibson Dresser G 1906 Hayden, Ariz.
Mining Engineer, Ray Consolidated Copper Company

Gano Sellick Dunn A 1905*† New York City
President, American Institute of Electrical Engineers

Charles Eustace Dwyer U 1911 Mullan, Idaho
Mining Engineer

Walter Hollis Eddy G 1908 New York City
Head of Biology, New York High School of Commerce

Henry Drew Egbert U 1910 New York City
Engineer, Guarantee Construction Company

Richard Hermann Ernest U 1905 Round Mountain, Nev.
Engineer, Round Mountain Mining Company

Alfred Winter Evans U 1906 Durban, Natal
Mining Engineer

Francis Gordon Fabian U 1907 Cincinnati, Ohio
Real Estate

Kaufman George Falk G 1907* New York City
Chemist, Harriman Research Laboratory, Roosevelt Hospital

Milton J Falk G 1905 New York City
Chemist, G. Falk and Brother

Myron Samuel Falk G 1903 New York City
Civil Engineer

Livingston Farrand CF 1903*† New York City
Professor of Anthropology, Columbia University

Herman Waldo Farwell G 1907* New York City
Instructor in Physics, Columbia University

Albert Hill Fay G 1906 Pittsburgh, Pa.
Mining Engineer, United States Bureau of Mines

Clarence Norman Fenner G 1908 Washington, D. C.
Investigator, Geophysical Laboratory, Carnegie Institution

William C Ferguson A 1905 Flushing, N. Y.
Chemist

Albert Fiedler U 1908 Brooklyn, N. Y.
Chemical Engineer

James Kip Finch U 1906 New York City
Instructor in Civil Engineering, Columbia University

George Irving Finlay G 1903* Colorado Springs, Col.
Professor of Geology, Colorado College

Harry Linn Fisher G 1910 New York City
Instructor in Chemistry, Cornell University Medical School

William Benjamin Fite F 1911 (Cornell G 1899) New York City
Professor of Mathematics, Columbia University

Arthur Bansford Fletcher U 1911 Vancouver, B. C.
Mining Engineer, Canadian Pacific Railroad

Mico Militiades Achilles Fontrier G 1906 Smyrna, Asia Minor

Francis S Foote, Jr G 1908 (Illinois F 1910) Urbana, Ill.
Associate in Railway Engineering, University of Illinois

William Horatio Freedman G 1904* Brooklyn, N. Y.
Head of Department of Applied Electricity, Pratt Institute

Mortimer Freund U 1906 New York City
Electrical Engineer, Percival R. Moses

Conrad Edwin Frudden U 1910
Mechanical Engineer

Charles Herman Fulton A 1905 (Case F 1911) Cleveland, Ohio
Professor of Metallurgy, Case School of Applied Science

Charles Rockwell Gardiner U 1907 Muscatine, Ia.
Manager, Amsterdam Button Company

Frazer Walker Gay U 1906 Newark, N. J.
Electrical Engineer, Crocker-Wheeler Electric Company

George Augustus Geiger G 1910 West Orange, N. J.
Chemist

William John Gies CF 1903* New York City
Professor of Biological Chemistry, Columbia University

Frederick Edward Gibert, Jr U 1906 New York City
Architectural Engineer

Charles Buxton Going A 1905† New York City
Editor of Engineering Magazine

Abraham Jules Goldfarb G 1907* New York City
Instructor in Zoology, College of City of New York

Hubert Dana Goodale G 1905 Cold Spring Harbor, L. I., N. Y.
Poultry Investigator, Carnegie Institution

Clarence Everett Gordon G 1905* Amherst, Mass.
Professor of Geology and Zoology, Massachusetts Agricultural College

Ross Aiken Gortner G 1909 Cold Spring Harbor, L. I., N. Y.
Chemist, Carnegie Experiment Station

Amadeus William Grabau G 1903*† New York City
Professor of Paleontology, Columbia University

Louis Pope Gratacap A 1905*† New York City
Curator, American Museum of Natural History

Russell DeCosta Greene U 1906 New York City
Assistant Engineer, Rapid Transit Commission

Kenneth Sproat Guiterman U 1911 Denver, Col.

William Hallock CF 1903*† New York City
Professor of Physics, Columbia University

Zachariah Power Halpin U 1907 New York City
Electrical Engineer

Chris Andrew Hartnagel G 1905* Albany, N. Y.
Geologist, New York State Education Department

Philip Bovier Hawk G 1903* (Illinois F 1907) Urbana, Ill.
Professor of Physiological Chemistry, University of Illinois

Herbert Edwin Hawkes F 1911 New York City
Professor of Mathematics, Columbia University

John Hawkesworth U 1904 New York City
Civil Engineer

Harold Melvin Hays G 1903 New York City
Physician and Surgeon

Tracy Elliott Hazen G 1905* New York City
Assistant Professor of Botany, Barnard College, Columbia University

Vivian Allen Charles Henmon G 1907* (Colorado F 1906) Madison, Wis.
Associate Professor of Education, University of Wisconsin

Michael Heidenberger G 1910 New York City
Chemist

Edward Hess U 1906 New York City
Metallurgist

Henry Harold Higbie G 1905* (Michigan F 1905) Ann Arbor, Mich.
Assistant Professor of Electrical Engineering, University of Michigan

Eric Berkeley Higgins G 1908 Liverpool, England
Chemist

Alfred Hoffman G 1905* Brooklyn, N. Y.
Chemist

Charles Arthur Hollick A 1905* New York City
Curator of Paleo-Botany, New York Botanical Garden, Bronx Park

Henry Marion Howe G 1903*† New York City
Professor of Metallurgy, Columbia University

Marshall Avery Howe G 1904*† New York City
Curator, New York Botanical Garden, Bronx Park

Frederick Learoyd Humphrey U 1905 Mesa, Ariz.
Engineer, United States Reclaim Survey

George Sumner Huntington G 1903* New York City
Professor of Anatomy, College of Physicians and Surgeons

Frederick Remsen Hutton G 1903*† New York City
Emeritus Professor of Mechanical Engineering, Columbia University

Magnus Colbjarn Ihlseng A 1905*† Blairsville, Pa.
President, Blairsville College

John Duer Irving A 1904* New Haven, Conn.
Professor of Geology, Yale University

Royal Preston Jarvis G 1907 Knoxville, Tenn.
Professor of Mining, University of Tennessee

Walter Proctor Jenney A 1905* Washington, D. C.
Consulting Geologist

Arthur Michael Johnson U 1906 Franklin Furnace, N. J.
Mining Engineer, New Jersey Zinc Company

Douglas Wilson Johnson G 1903* Cambridge, Mass.
Assistant Professor of Physiography, Harvard University

Herman Norton Johnson U 1906 Binghamton, N. Y.
Mining Engineer

Edward Crosby Jones U 1908 Troy, N. Y.
Assistant in Electrical Engineering and Physics, Rensselaer Polytechnic

Lewis Meredith Jones U 1908 Cleveland, Ohio
Mining Engineer

Farel Louis Jouard G 1908 New York City
Professor of Chemistry, New York Homoepathic Medical College

Cavalier Hargrave Joüet G 1903* New York City
Instructor in Chemistry, Columbia University

Edward Knight Judd F 1911 New York City
Instructor in Mining, Columbia University

Alexis Anastay Julien G 1903* South Harwich, Mass.
Retired

Albert Carl Kaestner U 1910 New York City
Civil Engineer

Frederick Rowe Keller U 1911 New York City
Assistant in Electrical Engineering, Columbia University

William Erskine Kellicott G 1903* Baltimore, Md.
Professor of Biology, Goucher College

Lee Olds Kellogg U 1906 Temascallepec, Est., Mexico
Mining Engineer, American Kincon Mining Company

James Furman Kemp CF 1903*† (Cornell F 1887) New York City
Professor of Geology, Columbia University

Burton Warren Kendall G 1909 New York City
Instructor in Physics, Columbia University

Edward Calvin Kendall U 1908 New York City
Research Chemist, St Luke's Hospital

Edward Frank Kern G 1905* New York City
Assistant Professor of Metallurgy, Columbia University

Joseph Waldo Kingsbury G 1907 San Francisco, Cal.
Mining Engineer

Richard Ellard Kinsman U 1911 New York City
Electrical Engineer, American Telegraph and Telephone Company

Edwin Kirk U 1907* Washington, D. C.
Assistant Geologist, United States Geological Survey

William Klaber G 1907 New York City
Chemist

Luther Lycurgus Kirtley U 1908 Salt Lake City, Utah
Mining Engineer

John Edward Klein U 1909 Montreal, Canada
Electrical Engineer

Cyril Workman Knight G 1905 Toronto, Canada
Geologist, Ontario Geological Survey

Herbert S Kohlberg U 1909 El Paso, Tex.
Mining Engineer

Henry Kraemer A 1905*† Philadelphia, Pa.
Professor of Botany, Philadelphia College of Pharmacy

Arthur Kraus U 1908 New York City
Civil Engineer

Otto Kress U 1906 New York City
Instructor in Chemistry, Columbia University

Alfred Hemmer Kroff G 1908 New York City
Chemist

Frederick Kruse, Jr U 1907 New York City
Mining Engineer

Frederick Thurlow Lacy U 1911 Schenectady, N. Y.
Mechanical Engineer, American Locomotive Company

Maurice Allison Lamme G 1906 New York City
Instructor in Mineralogy, Columbia University

George Alfred Lawrence CG 1903 New York City
Adjunct Professor, New York Post-Graduate Medical School

Frederic Schiller Lee G 1903*† New York City
Professor of Physiology, College of Physicians and Surgeons

Montrose Lucius Lee U 1910 Montevideo, Uruguay
Mining Engineer and Geologist

Ferdinand Leiser, Jr U 1911 Brooklyn, N. Y.
Civil Engineer

Albert Buell Lewis G 1904 Chicago, Ill.
Assistant in Anthropology, Field Columbian Museum

J Chester Alan Arthur Lichtenberg G 1907 Schenectady, N. Y.
Electrical Engineer, General Electric Company

Francis Church Lincoln G 1906* (Illinois F 1911) Urbana, Ill.
Associate in Mining Engineering, University of Illinois

Francis Ernst Lloyd G 1907*† Auburn, Ala.
Professor of Botany, Alabama Polytechnic Institute

Karl Ernest Lloyd U 1908 Elyria, Ohio
Mining Engineer

Grover Cleveland Loening U 1911 New York City
Civil Engineer

Preston Erie Locke U 1909 Ray, Ariz.
Mining Engineer, Ray Consolidated Copper Company,

Alfred Pierce Lothrop G 1908 New York City
Instructor in Biological Chemistry, Columbia University

Earle Brink Lovell CF 1903 (Cornell U 1891) New York City
Professor of Civil Engineering, Columbia University

Daniel Ralph Lucas U 1907 New York City
Physician

Charles Eduard Lucke G 1906 New York City
Professor of Mechanical Engineering, Columbia University

Lea McIlvaine Luquer G 1903* New York City
Assistant Professor of Mineralogy, Columbia University

Henry Hudson Edwin Lynn U 1907 New York City
Civil Engineer

George John Lyon U 1904 Schenectady, N. Y.
Assistant Professor of Civil Engineering, Union College

Alfred Sidney Malcomson U 1905 Freeport, N. Y.
Civil Engineer, Smith and Malcomson

Ralph Marble U 1905 Duluth, Minn.
Mining Engineer

Henry Howard Marvin G 1911 Boston, Mass.
Instructor in Physics, Massachusetts Institute of Technology

John Alexander Mathews A 1905*† Syracuse, N. Y.
Managing Director, Halcomb Steel Company

William Diller Matthew A 1905*† New York City
Palaeontologist, American Museum of Natural History

Clarence Earl May G 1908 Bloomington, Ind.
Assistant Professor of Chemistry, Indiana University

Almer McDuffie McAfee G 1911 Bayonne, N. J.
Chemist, The Texas Company

Robert Earll McConnell U 1910 Virginia City, Mont.
Mining Engineer

James Howard McGregor CF 1903* (Ohio A 1911) New York City
Assistant Professor of Zoology, Columbia University

Charles Searing Mead G 1905 Evanston, Ill.
Instructor in Zoology, Northwestern University

Harry Levi Mead U 1905 New York City
Engineer

Albert Mendelsohn U 1911 Houghton, Mich.
Mining Engineer, Superior Copper Company

Arthur B Menefee U 1910 Wharton, N. J.
Assistant Superintendent, Mt. Hope Mines

Frederick James Hamilton Merrill A 1905*† Nogales, Ariz.
Consulting Geologist

Marion Hawthorne Merriss U 1910 Perth Amboy, N. J.
Assistant Superintendent, American Smelting and Refining Company

Arthur J Mettler G 1906 Orangeburgh, N. J.
Chief Chemist, Fibre Conduit Company

Floyd Jay Metzger G 1904 New York City
Instructor in Chemistry, Columbia University

Arnold William Meyer G 1908
(Deceased 1910)

Louis Guy Michael G 1904 Kishinev, Russia

Benjamin Michailovsky U 1908 New York City
Physician

Edmund Howd Miller G 1903*†
(Deceased 1906)

Kenneth Ballard Millett U 1907 Newburgh, N. Y.
Mechanical Engineer

James Burt Miner G 1903* (Illinois G 1903) Minneapolis, Minn.
Assistant Professor of Psychology, University of Minnesota

Clark Godell Mitchell U 1911 (Yale 1909) Britannia Beach, B. C.
Engineer, Britannia Mining and Smelting Company

Samuel Alfred Mitchell F 1907* New York City
Assistant Professor of Astronomy, Columbia University

Fred Howard Moffit G 1903 Washington, D. C.
Geologist, United States Geological Survey

John Harold Morecroft, Jr F 1910* (Syracuse G 1907) New York City
Assistant Professor of Electrical Engineering, Columbia University

John Livingston Rutgers Morgan G 1903*† New York City
Professor of Physical Chemistry, Columbia University

Charles Virgin Morrill G 1906 New York City
Instructor in Anatomy, New York University Medical College

Frederick Kuhne Morris G 1909 New York City
Teacher, New York City Schools

Charles Edward Morrison G 1905 New York City
Civil Engineer

Leighton B Morse G 1906 New York City
Instructor in Physics, Columbia University

Max Morse G 1905 New York City
Assistant in Zoology, College of the City of New York

Alfred Joseph Moses CF 1903*† New York City
Professor of Mineralogy, Columbia University

Wilford Barber Mucklow U 1909 McGill, Nev.
Mining Engineer

Henry Smith Munroe G 1903† New York City
Professor of Mining, Columbia University

Benjamin Lindley Murray G 1905 Rahway, N. J.
Chemist, Merck and Company

William Stockton Nelms G 1909 New York City
Assistant in Physics, Columbia University

John Maurice Nelson G 1907 New York City
Tutor in Chemistry, Columbia University

Andrew White Newberry U 1908 Sandusky, Ohio
Metallurgist, Portland Cement Company

William Newell U 1907 Montclair, N. J.
Mechanical Engineer

David Hale Newland A 1905* Albany, N. Y.
Assistant State Geologist, State Department of Education

Edmund Newton U 1911 Arkville, N. Y.
Mining Engineer

Ernest Fox Nichols F 1904*† (Cornell G 1902) Hanover, N. H.
President, Dartmouth College

Henry William Nieman U 1911 Schuyler, Neb.
Mining Engineer

Leonard D Norsworthy U 1909 Grinnell, Ia.
Assistant Professor of Mathematics, Grinnell College

Malcom Lindsay O'Neale U 1910 Coal City, Ala.
Superintendent of Mines, Seaboard Coal and Coke Company

Henry Fairfield Osborn CF 1903*† New York City
Da Costa Professor of Zoology, Columbia University

Raymond Carroll Osburn G 1903* New York City
Assistant Professor of Zoology, Columbia University

Leonard Flagge Otten U 1907 New Rochelle, N. Y.
Mechanical Engineer

Reuben Ottenberg U 1905 New York City
Assistant Physician in Microscopy, Mt. Sinai Hospital

John Bagot Overbeck U 1907 Cape Town, South Africa
Mining Engineer

Frederick James Pack G1905 Salt Lake City, Utah
Professor of Geology, University of Utah

Herschel Clifford Parker G 1903*† New York City
Professor of Physics, Columbia University

Harry Lilienthal Parr F 1908 New York City
Instructor in Mechanical Engineering, Columbia University

William Barclay Parsons A 1905*† New York City
Consulting Engineer

Frederick Malling Pedersen A 1905* New York City
Assistant Professor of Mathematics, College of the City of New York

George Braxton Pegram G 1903* New York City
Assistant Professor of Physics, Columbia University

William Richmond Peters U 1911
(Deceased 1911)

Robert Early Phelan U 1910
Mining Engineer

John Bonsall Porter A 1905* Montreal, Canada
Professor of Mining, McGill University

Edward R Posner G 1905 Des Moines, Ia.
Professor of Medicine, Drake University

Frederick James Powell U 1905 New York City
Lawyer, Mining Engineer

Herman A Prosser A 1905 New York City
Metallurgist, United States Smelting Company

Michael Idvorsky Pupin G 1904*† New York City
Professor of Electro-Mechanics, Columbia University

Thomas Thornton Read G 1905* San Francisco, Cal.
Associate Editor, Mining and Scientific Press

John Krom Rees CF 1903*
(Deceased 1907)

Raemer Rex Renshaw G 1907* Middletown, Conn.
Instructor in Chemistry, Wesleyan University

Leandro Jose Ricarda U 1904 Comaguey, Cuba
Civil Engineer, Francisca Sugar Company

Alfred Newton Richards G 1903* (Yale G 1898) Philadelphia, Pa.
Professor of Pharmacology, University of Pennsylvania

Herbert Maule Richards G 1903* New York City
Professor of Botany, Columbia University

Henry Alsop Riley U 1910 New York City

Wells Littlefield Riley U 1911 New York City
Mechanical Engineer, Columbia University

Ambrose Ely Ring U 1905 Flat River, Mo.
Chief Engineer, Federal Lead Company

John Thomas Roberts, Jr U 1907 Buffalo, N. Y.
Manager, Wanakah Mining Company

Charles Budd Robinson G 1906* Manila, P. I.
Botanist, Bureau of Science

Austin Flint Rogers CF 1903* Palo Alto, Cal.
Associate Professor of Mineralogy, Leland Stanford Junior University

Gaillard Sherburne Rogers G 1909 Washington, D. C.
Junior Geologist, United States Geological Survey

Jacob Rosenbloom G 1910 New York City
Associate in Chemistry, College of Physicians and Surgeons

Walter Louis Rothschild U 1907 New York City
Civil Engineer

John Joseph Ryan U 1909 New York City
Electrical Engineer

William Salant G 1905* Washington, D. C.
Pharmacologist, United States Department of Agriculture

William Jay Schieffelin A 1905*† New York City
Manufacturing Chemist

Walter Irvine Schlichter F 1911 New York City
Professor of Electrical Engineering, Columbia University

Hermann von Wechlinger Schulte F 1910 New York City
Assistant Professor of Anatomy, College of Physicians and Surgeons

David Burnet Scott U 1911 Miami, Ariz.
Mining Engineer, Miami Copper Company

Harvey Ambrose Seil G 1906 Perth Amboy, N. J.
Chemist

George Francis Sever G 1903† New York City
Consulting Electrical Engineer

Willard Lesly Severinghaus G 1909 New York City
Instructor in Physics, Columbia University

Frank Houghton Sewall U 1906 New York City
Civil Engineer, Brooklyn Union Gas Company

Charles Harmonas Shamel G 1905 Seattle, Wash.
Lawyer

Conway Wing Shearer U 1910 East Pittsburgh, Pa.
Engineer, Westinghouse Electric and Manufacturing Company

Henry Clapp Sherman G 1903*† New York City
Professor of Chemistry, Columbia University

Hervey Woodburn Shimer G 1903* Boston, Mass.
Assistant Professor of Paleontology, Massachusetts Institute of Technology

J Edwin Sinclair G 1908 Newark, N. J.
Instructor in Physics and Chemistry, Barringer High School

Marco Carmelich Smith, Jr U 1908 Brooklyn, N. Y.
Civil Engineer

Charles Henry Smyth, Jr A 1905*† Princeton, N. J.
Professor of Geology, Princeton University

George Albert Soper G 1906 New York City
Metropolitan Sewage Commission

Charles B Spencer U 1910 New York City
Civil Engineer

Edward Anthony Spitzka G 1905*† Philadelphia, Pa.
Physician and Professor of Anatomy, Jefferson Medical College

Matthew Steele G 1908 (Missouri F 1910) Columbia, Mo.
Assistant Professor of Dairy Husbandry, University of Missouri

Reston Stevenson G 1908 New York City
Instructor in Chemistry, College of the City of New York

Charles Arthur Stewart G 1907* Moscow, Ida.
Associate Professor of Geology, University of Idaho

Ralph Randles Stewart U 1911 Rawal Pindi, India
Professor of Biology, Gordon College

William Warren Stifler G 1911 (Illinois G 1910) New York City
Assistant in Physics, Columbia University

Joseph Whitla Stinson U 1907 New York City
Architect

Charles Rupert Stockard G 1905* New York City
Professor of Anatomy, Cornell Medical School

George Cameron Stone — A 1905 — New York City
Metallurgist, New Jersey Zinc Company

Bradley Stoughton — G 1903* — New York City
Consulting Metallurgical Engineer

Oliver Smith Strong — G 1903* — New York City
Instructor in Anatomy, College of Physicians and Surgeons

Joseph Struthers — A 1905 — New York City
Assistant Secretary, American Institute of Mining Engineers

Walter Stanborough Sutton — CF 1903 — Rosedale, Kan.
Associate Professor of Surgery, University of Kansas Medical School

Charles C Swartz — G 1903 (Yale 1900) — South Norwalk, Conn.
Consulting Mining Engineer

Isadore Tanz — U 1906 — New York City
Engineer, New York Telephone Company

Peter Louis Tea — U 1910 — New York City
Electrical Engineer

Harold Allen Thomas — U 1908 — Terre Haute, Ind.
Instructor in Civil Engineering, Rose Polytechnic Institute

John Fairfield Thompson — G 1904 — Bayonne, N. J.
Superintendent, Monel Metal Manufacturing Company

Edgar George Thomasen — G 1910 — New York City
Chemist, Columbia University

Edward Lee Thorndike — F 1911 — New York City
Professor of Educational Psychology, Columbia University

Edward Day Thurston, Jr — G 1908 — New York City
Instructor in Mechanical Engineering, Columbia University

Roger Wolcott Toll — U 1906 — Denver, Col.
Assistant Engineer, Denver City Tramway Company

Carl Tombo — U 1905 — New York City
Civil Engineer

Fitzhugh Townsend — G 1903
(Deceased 1906)

Frank Weiss Traphagen — A 1905*† — Golden, Col.
Professor of Metallurgy, Colorado School of Mines

Amasa Trowbridge — G 1904 — Hartford, Conn.
Manager, Veeder Manufacturing Company

Charles Christopher Trowbridge — G 1903* — New York City
Instructor in Physics, Columbia University

Samuel Auchmuty Tucker — G 1907* — New York City
Adjunct Professor of Electro-chemistry, Columbia University

Frank Leo Tufts — G 1903*
(Deceased 1909)

Lucien Marcus Underwood — CF 1903*
(Deceased 1907)

William Erastus Upham — G 1906 — Ocean Park, Cal.
Mining Engineer

Lillian Lee Vaughan U 1911 West Raleigh, N. C.
Instructor, North Carolina College of Agriculture and Mechanic Arts

Harold Edwin Vehslage U 1909 New York City
Assistant Mechanical Engineer, American Cotton Oil Company

Trifon von Schrenk U 1909 Kansas City, Mo.
Secretary, Arkansas Bridge Company

Herman T Vulte G 1905 New York City
Adjunct Professor of Chemistry, Teachers College, Columbia University

Arthur L Walker F 1909 New York City
Professor of Metallurgy, Columbia University

Chung Yu Wang G 1904 London, England
Mining Engineer

Harold Worthington Webb G 1906 New York City
Instructor in Physics, Columbia University

Walter Harvey Weed A 1908*† New York City
Consulting Mining Geologist, Weed and Probert

Frederick Seymour Weingarten U 1907 New York City
Physician

William Henry Welker G 1905* Philadelphia, Pa.
Demonstrator in Physiological Chemistry, University of Pennsylvania

Ching Yu Wen G 1911 Canton, China
Metallurgist

George Vincent Wendell F 1911 New York City
Professor of Physics, Columbia University

Harry Wessler U 1908 New York City
Physician

Doris William Whipple U 1908 New York City
Chemist

Herbert Perey Whitlock G 1904* Albany, N. Y.
Mineralogist, New York State Museum

Milton C Whitaker F 1911 New York City
Professor of Industrial Chemistry, Columbia University

Ferdinand Gerhard Wiechmann A 1905*† New York City
Consulting Chemical Engineer

Ira Abraham Williams G 1904* Ames, Ia.
Associate Professor of Geology, Iowa State College

Jacov Paul Jones Williams F 1911 New York City
Assistant Professor of Civil Engineering, Columbia University

Roland Hugh Williams G 1905 New York City
Head of Science, Horace Mann School

George Williamson U 1908 East Orange, N. J.
Electrical Engineer

Bailey Willis A 1905*† Washington, D. C.
Geologist, United States Geological Survey

Albert Potter Wills G 1906* New York City
Professor of Physics, Columbia University

Edmund Beecher Wilson CF 1903*† New York City
Professor of Zoology, Columbia University

Herbert Michael Wilson A 1905*† Pittsburgh, Pa.
Civil Engineer and Geologist, United States Bureau of Mines

J Howard Wilson G 1906* Castine, Me.
Geologist

Philip Danforth Wilson U 1911 Campas, Sonora, Mex.
Mining Engineer, Transvaal Copper Mining Company

Louis Elsberg Wise G 1910 New York City
Research Chemist

Sidney Leo Wise U 1911 New York City
School of Mines, Columbia University

Leon Elmer Woodman G 1906* Orono, Me.
Assistant Professor of Physics, University of Maine

Lorande Loss Woodruff G 1903* (Yale F 1905) New Haven, Conn.
Assistant Professor of Biology, Yale University

Robert Simpson Woodward CF 1903*† Washington, D. C.
President, Carnegie Institution

Charles Boyd Woticky U 1908 New York City
Electrical Engineer

Albert Allen Wright A 1905
(Deceased 1905)

Charles Rapelyia Wyckoff, Jr G 1903 Brooklyn, N. Y.
Civil Engineer

Naohide Yatsu G 1903* Tokyo, Japan
Assistant Professor of Zoology, Tokyo Imperial University

Harlan Harvey York G 1906 Providence, R. I.
Assistant Professor of Botany, Brown University

Charles Zeleny G 1903* (Minnesota U 1898) Urbana, Ill.
Associate Professor of Zoology, University of Illinois

Frederick William Zons G 1911 Long Island City, N. Y.
Chemist

CHICAGO CHAPTER

University of Chicago, Chicago, Illinois

Charter Dated May 1, 1903 Chapter Installed May 8, 1903

HISTORICAL SKETCH

Steps leading to the organization of a Chapter of the Sigma Xi Society at the University of Chicago were taken early in December, 1902, as a result of a conference of resident members of the Society among the faculty and students of the University. The petition, signed by thirty-seven of the faculty, was transmitted by the President of the Society, who was one of the signers of the petition, to the Chairman of the Council in December. Unanimously recommended by the Council, it received the assent of the chapters, and the charter, duly signed by the President and Secretary, was received early in May. The first meeting, called by Professor Williston, was held on May 8, with nearly all the signers present, and President Harper of the University, who was an invited guest.

After the objects and aims of the Society, with a brief history of it, had been given by Professor Williston, and a few words of encouragement had been spoken by President Harper, officers of the Chapter were elected. A committee, composed of Professors Williston, Weller and Wells, was appointed to draft the by-laws of the Chapter. The report of the committee on by-laws was presented at a called meeting on May 22, with a large attendance of members, and others eligible for membership. Those of the faculty eligible for membership were invited to become charter members, all of whom accepted the invitation. The Chapter began its active membership with more than one hundred members, and has since never fallen below that number. Meetings are held quarterly, at which, attendance varies betwen sixty and one hundred. At these meetings it has been the invariable custom, after the transaction of necessary business, to listen to an address by some speaker of note, after which a social entertainment has been provided. From the beginning it has been the policy of the Chapter to admit only graduate students to membership, students who have actually accomplished or are doing research work of merit.

S. W. W.

OFFICERS FOR 1911–12

President.....John Merle Coulter
Vice-President.....Albert Prescott Matthews
Recording Secretary.....Herman Irving Schlesinger
Corresponding Secretary.....Julius Stieglitz
Treasurer.....Herman Irving Schlesinger
Councilor.....Julius Stieglitz

MEMBERSHIP ROLL

Charles Christopher Adams G 1908* (Illinois F 1908) Urbana, Ill.
Associate in Animal Ecology, University of Illinois

Charles Frederick Adams G 1903* (Kansas G 1902) Fayetteville, Ark.
Dean of Agriculture, University of Arkansas

Henry Foster Adams G 1908 Ann Arbor, Mich.
Instructor in Psychology, University of Michigan

Walter Sydney Adams CF 1903* Pasadena, Cal.
Assistant Astronomer, Carnegie Institute

Warder Clyde Allee G 1911 Chicago, Ill.
Assistant in Zoology, University of Chicago

Bennett Mills Allen C 1903* (Wisconsin CF 1907) Madison, Wis.
Instructor in Anatomy, University of Wisconsin

George D Allen G 1909 Chicago, Ill.

Jessie Blount Allen G 1904 (Missouri F 1908) Columbia, Mo.
(Mrs Werrett Wallace Charters)

Harriett M Allyn G 1909 Chicago, Ill.
Fellow in Zoology, University of Chicago

Ernest Anderson G 1908 Chicago, Ill.
Research Instructor in Chemistry, University of Chicago

James Rowland Angell CF 1903*† Chicago, Ill.
Dean of Arts, Literature and Science, University of Chicago

Charles Orval Appleman G 1909 College Park, Md.
Plant Physiologist, Maryland Agricultural College

Harold DeForest Arnold G 1907 New York City
Research, Western Electric Company

George Cromwell Ashman G 1907 Peoria, Ill.
Professor of Chemistry, Bradley Polytechnic Institute

Kenneth Noel Atkins G 1911 Chicago, Ill.
Graduate Student, University of Chicago

Wallace Walter Atwood CF 1903* Chicago, Ill.
Associate Professor of Geology, University of Chicago

Winfred McKenzie Atwood G 1911 Chicago, Ill.
Graduate Student, University of Chicago

Samuel Henry Ayres G 1906 Washington, D. C.
Bacteriologist, Dairy Division, U. S. Department of Agriculture

Raymond Foss Bacon G 1903 Pittsburgh, Pa.
Associate Director, Department Industrial Research, University of Pittsburgh

J L Baer G 1903 Kankakee, Ill.

Harry Foster Bain F 1904*† (Illinois CF 1904) San Francisco, [Cal.
Editor, Mining and Scientific Press

Charles Laurence Baker G 1909 Berkeley, Cal.
Geologist

Ernest Everett Ball G 1905 Fresno, Cal.

John Raymond Barber G 1904 Portland, Ore.
Captain, Medical Corps, U. S. Army

George A. Barker G 1905 Normal, Ill.
Instructor in High School

Lewellys Franklin Barker CF 1903*† Baltimore, Md.
Professor of Medicine, and Physician, Johns Hopkins University

Edward Emerson Barnard CF 1903*† Williams Bay, Wis.
Professor of Astronomy, University of Chicago and Yerkes Observatory

Edith Ethel Barnard G 1905 Chicago, Ill.
Instructor in Chemistry, University of Chicago

Charles Reid Barnes CF 1903*
(Deceased 1910)

Harlan Harland Barrows G 1903 Chicago, Ill.
Assistant Professor of Geology, University of Chicago

George William Bartelmez G 1908 Chicago, Ill.
Instructor in Anatomy, University of Chicago

Edson Sunderland Bastin G 1903 Washington, D. C.
Geologist, U. S. Geological Survey

William Jacob Baumgartner G 1903 Lawrence, Kan.
Assistant Professor of Zoology, University of Kansas

Frank Christian Becht G 1907 (Illinois F 1910) Urbana, Ill.
Assistant Professor of Physiology, University of Illinois

William Porter Beck G 1904 Pittsburgh, Pa.
Secretary and Treasurer, Frankstown Realty Company

James Edgar Bell G 1910 (Illinois G 1911) Urbana, Ill.
Assistant in Chemistry, University of Illinois

Robert Russell Bensley CF 1903* Chicago, Ill.
Professor of Anatomy, University of Chicago

Robert Louis Benson G 1907 Chicago, Ill.
Student, Rush Medical College

Walter VanDyke Bingham G 1906 Hanover, N. H.
Assistant Professor of Psychology, Dartmouth College

George David Birkhoff G 1907 Princeton, N. J.
Professor of Mathematics, Princeton University

Edwin Sherwood Bishop G 1909 Chicago, Ill.
Instructor in Physics, School of Education, University of Chicago

Frederic Lendall Bishop G 1904 Pittsburgh, Pa.
Dean of Engineering, University of Pittsburgh

Eliot Blackwelder CG 1903 (Wisconsin CF 1907) Madison, Wis.
Associate Professor of Geology, University of Wisconsin

Charles Scofield Blair G 1906 (Northwestern G 1906) Washington,
Assistant Geologist, U. S. Geological Survey [D. C.

William Richards Blair G 1904 Bluemont, Va.
Director of Observatory, U. S. Weather Bureau

Gilbert Ames Bliss CF 1903* (Minnesota F 1901) Chicago, Ill.
Associate Professor of Mathematics, University of Chicago

Guy L Bliss G 1907 Three Rivers, Mich
Physician

Mary Blount G 1906 Chicago, Ill.
Instructor in Zoology, University of Chicago High School

Katherine Blunt G 1906 Poughkeepsie, N. Y.
Instructor in Chemistry, Vassar College

Oskar Bolza CF 1903* Freiburg, Germany
Honorary Professor of Mathematics, University of Freiburg

Robert Lacey Borger G 1904 (Illinois F 1908) Urbana, Ill.
Associate in Mathematics, University of Illinois

Thomas Harris Boughton G 1904 Lawrence, Kan.
Professor of Pathology, University of Kansas

Melvin Amos Brannon G 1911 Grand Forks, N. D.
Professor of Biology, Dean of College of Arts, University of North Dakota

Edwin Bayer Branson G 1904* (Kansas U 1903; Missouri F 1910)
Professor of Geology, Oberlin College [Oberlin, Ohio

Joseph Kumber Breitenbecker G 1911 Tucson, Ariz.
Research Assistant, Desert Laboratory

Albert Dudley Brokaw G 1909 Chicago, Ill.
Assistant in Geology, University of Chicago

Charles Brookover G 1907 Akron, Ohio
Professor of Natural Science, Buchtel College

Clyde Brooks G 1908 Pittsburgh, Pa.
Assistant Professor of Physiology, University of Pittsburgh Medical School

Orville Harry Brown G 1903* (Kansas G 1901) St. Louis, Mo.
Assistant Professor of Medicine, St. Louis University

Roy H Brownlee G 1904 Pittsburgh, Pa.
Professor of Industrial Chemistry, University of Pittsburgh

Daniel Buchanan G 1909 Kingston, Ontario
Assistant Professor of Mathematics, Queens University

Herbert Earle Buchanan G 1908 Knoxville, Tenn.
Professor of Mathematics, University of Tennessee

Robert Earle Buchanan G 1908 Ames, Ia.
Professor of Bacteriology, Iowa State College

Thomas Buck G 1909 (Illinois F 1910) Berkeley, Cal.
Instructor in Mathematics, University of California

Herbert Horace Bunzell G 1907 Washington, D. C.
Chemical Biologist, Bureau of Plant Industry

William H Burger F 1911 Evanston, Ill.
Assistant Professor of Civil Engineering, Northwestern University

Leonas Lancelot Burlingame G 1907 (Stanford F 1908) Palo Alto, Cal.
Assistant Professor of Botany, Leland Stanford Junior University

William Henry Bussey G 1903* (Minnesota F 1908) Minneapolis,
Assistant Professor of Mathematics, University of Minnesota [Minn.

Hortense Butler G 1905 Peterson, Ia.

Joseph Stuart Caldwell G 1911 Chicago, Ill.
Fellow in Botany, University of Chicago

Otis William Caldwell A 1903*† Chicago, Ill.
Associate Professor of Botany, University of Chicago

R D Calkins G 1907 Mt. Pleasant, Mich.
Instructor in Geography, Central State Normal School

Stephen Reid Capps, Jr G 1906 Washington, D. C.
Assistant Geologist, U. S. Geological Survey

Anton Julius Carlson F 1904*† (Stanford G 1903) Chicago, Ill.
Associate Professor of Physiology, University of Chicago

Joel Ernest Carman G 1904 Cincinnati, Ohio
Assistant Professor of Geology, University of Cincinnati

Clifford Daniel Carpenter G 1911 Chicago, Ill.
Associate in Chemistry, University of Chicago High School

Emma Perry Carr G 1908 South Hadley, Mass.
Associate Professor of Chemistry, Mt. Holyoke College

Harvey Carr G 1904 Chicago, Ill.
Assistant Professor of Psychology, University of Chicago

Alexis Carrel G 1906 New York City
Associate, Rockefeller Institute

Matilde Castro G 1904 Rockford, Ill.
Professor of Philosophy, Rockford College

Charles Joseph Chamberlain CF 1903*† Chicago, Ill.
Associate Professor of Botany, University of Chicago

Ethel Chamberlin G 1909 East Orange, N. J.
(Mrs Ethel Chamberlin Porter)

Rollin Thomas Chamberlin G 1904 Chicago, Ill.
Assistant Geologist, U. S. Geological Survey, University of Chicago

Thomas Chrowder Chamberlin CF 1903*† Chicago, Ill.
Professor of Geology, University of Chicago

Elbert E Chandler G 1905 Los Angeles, Cal.
Professor of Chemistry, Occidental College

Edgar K Chapman G 1909 Crawfordsville, Ind.
Professor of Physics, Wabash College

Grace Miriam Charles G 1909 Lawrence, Kan.
Instructor in Botany, University of Kansas

Jessie Blount Allen Charters G 1904 (Missouri F 1908) Columbia, Mo.
(Mrs Werrett Wallace Charters)

Floyd Earle Chidester G 1909 New Brunswick, N. J.
Instructor in Zoology, Rutgers College

Charles Manning Child CF 1903* Chicago, Ill.
Associate Professor of Zoology, University of Chicago

Mintin Asbury Chrysler G 1903 Orono, Me.
Professor of Biology, University of Maine

Grace Lucretia Clapp G 1909 Chicago, Ill.
Fellow in Botany, University of Chicago

Elbert Clark G 1909 Manila, P. I.
Associate Professor of Anatomy, University of the Philippines

Joseph Franklin Clevenger G 1909 State College, Pa.
Instructor in Botany, Pennsylvania State College

Oliver Charles Clifford G 1904 Chicago, Ill.
Assistant Professor of Engineering, Armour Institute of Technology

J Harry Clo G 1908 New Orleans, La.
Assistant Professor of Physics, Tulane University

Benson Ambrose Cohoe F 1903* Baltimore, Md.
Assistant Resident Physician, Johns Hopkins Hospital

John S Collier G 1909 Champaign, Ill.
Expert in Rice Investigations

William S Cooper G 1909 Chicago, Ill.
Fellow in Botany, University of Chicago

Harry John Corper G 1909 Chicago, Ill.
Graduate Student, University of Chicago

John Merle Coulter CF 1903*† Chicago, Ill.
Professor of Botany, University of Chicago

Edmund Vincent Cowdry G 1911 Chicago, Ill.
Assistant in Anatomy, Universty of Chicago

Henry Chandler Cowles CF 1903*† Chicago, Ill.
Assistant Professor of Botany, University of Chicago

Wallace Craig G 1903 Orono, Me.
Professor of Philosophy, University of Maine

William Crocker G 1905 Chicago, Ill.
Assistant Professor of Plant Physiology, University of Chicago

Charles Benedict Davenport CF 1903*† Cold Spring Harbor, L. I., N. Y.
Head of Experimental Evolution, Carnegie Institution

Benjamin Franklin Davis G 1909 Chicago, Ill.
Physician

Bradley Moore Davis CF 1903*† Philadelphia, Pa.
Assistant Professor of Botany, University of Pennsylvania

David John Davis G 1903*† Chicago, Ill.
Pathologist, St. Luke's Hospital

Wilmer Esla Davis G 1909 Manhattan, Kan.
Assistant Professor of Botany, Kansas Agricultural College

Dudley Watson Day G 1905 Rockford, Ill.
Physician, Supervisor of Hygiene, Public Schools

Charles Elijah Decker U 1907 (Northwestern G 1908) Evanston, Ill.
Instructor in Physiography, Northwestern University

Willey Denis G 1907 Boston, Mass.
Research Chemist, Harvard Medical School

George F Dick F 1910 Chicago, Ill.
Instructor in Pathology, University of Chicago

Emily Elisabeth Dobbin G 1903 St. Paul, Minn.
Teacher of Mathematics, Mechanic Arts High School

Henry Herbert Donaldson CF 1903*† (Pennsylvania F 1906) Philadel-
Professor of Neurology, Wistar Institute [phia, Pa.

Leonard G Donnelly G 1911 Chicago, Ill.
Instructor, University of Chicago

Sister Helen Angela Dorety G 1908 Convent Station, N. J.
Teacher of Botany, College of St. Elizabeth

George Amos Dorsey F 1909 Chicago, Ill.
Associate Professor of Anthropology, University of Chicago

Thomas Eaton Doubt G 1903* Chicago, Ill.
Associate Professor of Physics, Armour Institute of Technology

June Etta Downey G 1906 Laramie, Wyo.
Professor of Philosophy, University of Wyoming

Fred Miller Drennan G 1911 Chicago, Ill.
Assistant in Physiology, University of Chicago

Elizabeth Hopkins Dunn G 1903 Chicago, Ill.
Instructor in Anatomy, University of Chicago

Sophia H Eckerson G 1909 Chicago, Ill.
Laboratory Assistant in Plant Physiology, University of Chicago

Oskar Eckstein G 1905* Peking, China
Director of Metallurgy, Imperial Chinese University

Walter Crosby Ells G 1911 Tacoma, Wash.
Professor of Mathematics, Whitworth College

William Harvey Emmons G 1903 Chicago, Ill.
Assistant Professor of Geology, University of Chicago

Carl Robert Englund G 1911 Chicago, Ill.
Graduate Student, University of Chicago

Saul Epsteen CF 1903 (Colorado F 1906) Boulder, Col.
Professor of Mathematics, University of Colorado

William Lloyd Evans G 1904 (Ohio G 1905) Columbus, Ohio
Associate Professor of Chemistry, Ohio State University

Oliver Cummings Farrington C 1903*† Chicago, Ill.
Curator of Geology, Field Museum of Natural History

Nevin Melanchthon Fenneman A 1904* (Wisconsin CF 1907) Cincinnati, [Ohio
Professor of Geology, University of Cincinnati

Grace Maxwell Fernald G 1906 Painesville, Ohio
Professor of Psychology, Lake Erie College

Mabel Ruth Fernald G 1908 Chicago, Ill.
Instructor in Psychology, Chicago Teachers College

Vernon Clifford Finch G 1911 Madison, Wis.
Assistant in Geology, University of Wisconsin

Harvey Fletcher G 1909 Chicago, Ill.
Fellow in Physics, University of Chicago

Thomas Bruce Freas F 1911 New York City
Assistant Professor and Curator, Havemeyer Laboratory

Benjamin Ball Freud A 1907 Chicago, Ill.
Instructor in Chemistry, Armour Institute of Technology

Fannie Cornelia Frisbie G 1903 Millburn, N. J.
(Mrs Frank Baldwin Jewett)

Edwin Brant Frost CF 1903*† Williams Bay, Wis.
Professor of Astronomy, University of Chicago, Director of Yerkes Observatory

George Damon Fuller G 1909 Chicago, Ill.
Instructor in Botany, University of Chicago

Henry Gordon Gale CF 1903* Chicago, Ill.
Assistant Professor of Physics, University of Chicago

Reginald Ruggles Gates G 1907 London, England
Botanical Laboratory, Imperial College of Science

W Stanley Gibson F 1911 Evanston, Ill.
Assistant in Anatomy, Medical School, Northwestern University

John W E Glattfeld G 1911 Chicago, Ill.
Graduate Student, University of Chicago

Thomas Haigh Glenn G 1909 Chicago, Ill.
Instructor in Bacteriology, Northwestern University Medical School

Emil Goetsch G 1907 Baltimore, Md.
Assistant Resident Surgeon, Johns Hopkins University Hospital

Robert Harold Goheen G 1903 Chicago, Ill.
Rush Medical College

Nellie Esther Goldthwaite G 1903 (Illinois F 1908) Urbana, Ill.
Assistant Professor of Household Science, University of Illinois

Liborio Gomez G 1907 Manila, P. I
Pathologist, Bureau of Science, Philippine Government

John Paul Goode F 1903*† Chicago, Ill.
Associate Professor of Geography, University of Chicago

Herbert Marcus Goodman G 1907 Chicago, Ill.
Interne, Cook County Hospital

Jesse More Greenman F 1907* Chicago, Ill.
Assistant Professor of Botany, University of Chicago

James Richard Greir G 1907 Chicago, Ill.
Student, Rush Medical College

Frank Loxley Griffin G 1904 Portland, Ore.
Professor of Mathematics, Reed College

Laurence Emery Gurney G 1905 Moscow, Ida
Professor of Physics, University of Idaho

Charles Claude Guthrie F 1904 Pittsburgh, Pa.
Professor of Physiology, University of Pittsburgh

George Ellery Hale CF 1903*† Pasadena, Cal:
Director, Mount Wilson Solar Observatory

Elliot Snell Hall G 1905 (Washington F 1907) Amherst, Mass.
Associate Professor of Chemistry, Amherst College

Ernest M Hall G 1909 Chicago, Ill.

William Ross Ham G 1907 State College, Pa.
Professor of Physics, State College of Pennsylvania

Walter Wile Hamburger U 1904 Chicago, Ill.
Physician, Instructor in Medicine, Rush Medical College

Francis Marion Hamilton G 1905 New York City
Professor of Psychology, New York Training School for Teachers

William Draper Harkins G 1904* (Stanford A 1905) Missoula, Mont.
Professor of Chemistry, University of Montana

Norman MacLeod Harris F 1903* Chicago, Ill
Assistant Professor of Bacteriology, University of Chicago

Basil Coleman Hyatt Harvey F 1904* Chicago, Ill.
Associate Professor of Anatomy, University of Chicago

Edward Maris Harvey G 1911 Williamsburg, Va.
Acting Professor Botany, William and Mary College

LeRoy Harris Harvey G 1907 Kalamazoo, Mich.
Professor of Biology, State Normal School

Heinrich Hasselbring U 1908*† (Cornell U 1899) Washnigton, D. C.
Bureau of Plant Industry, U. S. Department of Agriculture

Shinkishi Hatai CF 1903* (Pennsylvania F 1908) Philadel-
Associate in Neurology, Wistar Institute [phia, Pa.

Evelyn Sherwell Hayden G 1904 Marquette, Mich.
(Mrs Thomas Carlyle Hebb)

Joseph William Hayes G 1906 Chicago, Ill.
Instructor in Psychology, University of Chicago

Mary Holmes Stevens Hayes G 1905 Chicago, Ill.

Evelyn Sherwell Hayden Hebb G 1904 Marquette, Mich.
(Mrs Thomas Carlyle Hebb)

Thomas Carlyle Hebb G 1904 Marquette, Mich.
Professor of Physics and Chemistry, Northern State Normal

Mary Hefferan G 1903* Grand Rapids, Mich

Paul Gustav Heinemann G 1905 Chicago, Ill.
Associate in Bacteriology, University of Chicago

Ludvig Hektoen CF 1903*† Chicago, Ill.
Professor of Pathology, University of Chicago

Ansel Francis Hemenway G 1911 Chicago, Ill.
Graduate Student, University of Chicago

Albert Edward Hennings G 1909 Chicago, Ill.
Teacher of Physics, University High School

Gladys R Henry G 1911 Chicago, Ill.
Graduate Student, University of Chicago

Charles Judson Herrick F 1907*† Chicago, Ill.
Professor of Neurology, University of Chicago

John Charles Hessler CF 1903*† Decatur, Ill.
Professor of Chemistry, James Millikin University

William Weldon Hickman G 1908 Assuit, Egypt
Professor of Chemistry, Assuit College

Theophil Henry Hildebrandt G 1907 Ann Arbor, Mich.
Instructor in Mathematics, University of Michigan

John Benjamin Hill G 1911 State College, Pa.
Instructor in Botany, Pennsylvania State College

Thomas McDougall Hills G 1905 (Ohio F 1910) Columbus, Ohio
Assistant Professor of Geology, Ohio State University

Willis Stose Hilpert G 1905 Chicago, Ill.
Chemist, American Medical Association

Henry Hinds G 1907 Chicago, Ill.
Fellow in Geology, University of Chicago

Glenn Moody Hobbs CF 1903* Chicago, Ill.
Secretary, American School of Correspondence

Allen David Hole G 1905 Richmond, Ind.
Professor of Geology, Earlham College

Harriet F Holmes G 1911 Chicago, Ill.
Instructor in Pathological Technic, University of Chicago

Willis Boit Holmes CF 1903* (Illinois F 1907) Fremont, Ohio
Superintendent, Ames Laboratories

Clifton Durant Howe G 1904 Toronto, Canada
Professor of Forestry, University of Toronto

Walter Samuel Hunter G 1911 Chicago, Ill.
Fellow in Psychology, University of Chicago

Joseph Paxson Iddings CF 1903*† Washington, D. C.
Research, Smithsonian Institution

Charles Emerson Ingbert G 1903*
(Deceased)

Louis Ingold G 1906 Columbia, Mo.
Instructor in Mathematics, University of Missouri

Ernest Edward Irons G 1901 Chicago, Ill.
Assistant Professor of Medicine, Rush Medical College

Clara Jacobson G 1910 Chicago, Ill.
Student, Rush Medical College

Gerhard Hemming Jensen G 1902 (Cornell U 1899) Evanston, Ill.
Assistant Professor of Botany, Northwestern University

Fannie Cornelia Frisbie Jewett G 1903 Millburn, N. J.
(Mrs Frank Baldwin Jewett)

Frank Baldwin Jewett CG 1903 New York City
Engineer, American Telephone and Telegraph Company

Albert Johannsen G 1911 Chicago, Ill.
Assistant Professor of Petrology, University of Chicago

Jacob M Johlin, Jr F 1911 Ottawa, Ohio

Arden R Johnson G 1909 Lafayette, Ind.
Instructor in Chemistry, DePauw University

Oscar Perry Johnston U 1901 (Cornell G 1903) Reno, Nev.
Physician

J Claude Jones G 1907 Reno, Nev.
Assistant Professor of Geology, University of Nevada

Lauder William Jones CF 1903† Cincinnati, Ohio
Professor of Chemistry, University of Cincinnati

Wellington Downing Jones G 1909 Argentina
Geological Survey

Edwin Oakes Jordan CF 1903*† Chicago, Ill.
Professor of Bacteriology, University of Chicago

Herbert Edwin Jordan G 1904 (Kansas F 1911) Lawrence, Kan.
Assistant Professor of Mathematics, University of Kansas

William Henry Kadesch G 1909 Cedar Falls, Ia.
Professor of Physics, Iowa State Teachers College

Frank James Katz G 1907 Washington, D. C.
Assistant Geologist, U. S. Geological Survey

George Frederick Kay G 1903† (Kansas G 1904; Iowa F 1908) Iowa City, Ia.
Professor of Geology, University of Iowa

Nielsine Johanna Kildahl G 1907 Chicago, Ill.
Student, University of Chicago

Carl Kinsley CF 1903*† Chicago, Ill.
Associate Professor of Physics, University of Chicago

Edwin Garvey Kirk G 1903 Chicago, Ill.
Instructor in Anatomy, University of Chicago

Sidney Klein G 1903 Chicago, Ill.

Ansel Alphonso Knowlton G 1907 Salt Lake City, Utah
Associate Professor of Physics, University of Utah

Fred Conrad Koch G 1909 Chicago, Ill.
Assistant in Chemistry, University of Chicago

Waldemar Koch CF 1903* (Missouri F 1905)
(Deceased 1912)

John Matthias Kuehne G 1906 Austin, Tex.
Instructor in Physics, University of Texas

Preston Kyes F 1904* Chicago, Ill.
Assistant Professor of Pathology, University of Chicago

William Jesse Goad Land G 1904 Chicago, Ill.
Instructor in Botany, University of Chicago

Henry Higgins Lane G 1904 Norman, Okla.
Professor of Zoology, University of Oklahoma

Thomas Large G 1903 Irving Falls, Ida.
Teacher and Rancher

Kurt Laves CF 1903* Chicago, Ill.
Associate Professor of Astronomy, University of Chicago

James Wright Lawrie G 1905 Chicago, Ill.
Chief Chemist, Pullman Company

Edwin Raymond LeCount F 1904* Chicago, Ill.
Professor of Pathology, Rush Medical College

John Yiubong Lee G 1909 Chicago, Ill.
Assistant in Physics, University of Chicago

O J Lee G 1910 Chicago, Ill.
Graduate Student, University of Chicago

James Henry Lees G 1905 Des Moines, Ia.
Assistant State Geologist, Iowa Geological Survey

Ernest DeKoven Leffingwell G 1904 Chicago, Ill.
Anglo-American Polar Exposition

Harvey Brace Lemon G 1909 Chicago, Ill.
Assistant in Physics, University of Chicago

Nels Johann Lennes G 1906 (Brown F 1906) New York City
Instructor in Mathematics, Columbia University

Heman Burr Leonard G 1904 Eugene, Ore.
Assistant Professor of Mathematics, University of Oregon

Albert Buell Lewis G 1907 (Nebraska G 1900; Columbia A 1904)
Curator Field Museum of Natural History [Chicago, Ill.

Winford Lee Lewis G 1907 Evanston, Ill.
Instructor in Chemistry, Northwestern University

Frank Rattray Lillie CF 1903*† Chicago, Ill.
Professor of Embryology, University of Chicago

David Judson Lingle CF 1903*† Chicago, Ill.
Assistant Professor of Physiology, University of Chicago

Burton Edward Livingston G 1904*† Baltimore, Md.
Professor of Plant Physiology, Johns Hopkins University

Edwin Russell Lloyd G 1910 Washington, D. C.
Junior Geologist, U. S. Geological Survey

William Raymond Longley G 1905 (Yale F 1907) New Haven, Conn.
Assistant Professor of Mathematics, Yale University

Arno Benedict Luckhardt G 1907 Chicago, Ill.
Associate in Physiology, University of Chicago

Arthur Constant Lunn C 1903* Chicago, Ill.
Assistant Professor of Mathematics, University of Chicago

Herbert O Lussky G 1909 Chicago, Ill.
Assistant in Physiology, University of Chicago

Frank Eugene Lutz G 1904† New York City
Curator, Invertebrate Zoology, American Museum of Natural History

Carleton John Lynde G 1903 Ste-Anne de Bellevue, Quebec
Professor of Physics, The Macdonald College

Elias Potter Lyon CF 1903*† St. Louis, Mo.
Dean of Medical School, St. Louis University

Donald Francis MacDonald G 1908 Washington, D. C.
Geologist to Isthmian Canal Commission

William Duncan MacMillan G 1906 Chicago, Ill.
Instructor in Mathematics, University of Chicago

Harris Franklin MacNeish G 1903 New Haven, Conn.
Instructor in Mathematics, Yale University

Charles Riborg Mann CF 1903*† Chicago, Ill.
Associate Professor of Physics, University of Chicago

Florence Leland Manning G 1910 Kewanee, Ill.
Teacher of Biology High School

Wilfred Hamilton Manwaring G 1905 New York City
Assistant in Pathology, Rockefeller Institute for Medical Research

John N Martin G 1909 Bloomington, Ind.
Instructor in Botany, University of Indiana

Kirtley F Mather G 1911 Fayetteville, Ark,
Instructor in Geology, University of Arkansas

Albert Prescott Mathews F 1905*† Chicago, Ill.
Professor of Chemistry, University of Chicago

Samuel Alexander Mathews F 1906 Chicago, Ill.
Assistant Professor of Therapeutics, University of Chicago

William Burnet McCallum G 1904 Tucson, Ariz.
Professor of Botany, University of Arizona

Florence A McCormick G 1909 Chicago, Ill.
Assistant in Botany, University of Chicago

Herbert Newby McCoy CF 1903*† Chicago, Ill.
Professor of Chemistry, University of Chicago

Hugh McGuigan G 1904 St. Louis, Mo.
Medical School, Washington University

Paul Stillwell McKibben G 1908 Chicago, Ill.
Associate in Anatomy, University of Chicago

Franklin Chambers McLean G 1908 Portland, Ore.
Professor of Medicine, University of Oregon

Andrew Friedley McLeod G 1905 (Wisconsin CF 1907) Beloit, Wis.
Instructor in Chemistry, Beloit College

Oscar E Meinzer G 1906 Washington, D. C.
Assistant Geologist, U. S. Geological Survey

Axel Leonard Melander G 1904† Pullman, Wash.
Professor of Entomology, State College of Washington

Alan Wilfrid Cranbrook MenziesF 1908 Chicago, Ill.
Assistant Professor of Chemistry, University of Chicago

Albert Eli Merrill G 1907 Cleveland, Ohio
Teacher

Albert Abraham Michelson CF 1903*† Chicago, Ill.
Professor of Physics, University of Chicago

Egbert J Miles G 1906 Ithaca, N. Y.
Instructor in Mathematics, Cornell University

Robert Andrews Millikan F 1902*† Chicago, Ill.
Professor of Physics, University of Chicago

Charles Frederic Millspaugh F 1903*† Chicago, Ill.
Curator of Botany, Field Museum of Natural History

James Herbert Mitchell G 1909 Chicago, Ill.
Student, Rush Medical College

Roy Lee Moodie G 1905 (Kansas U 1905) Lawrence, Kan.
Assistant Professor of Zoology, University of Kansas

Howard Wilson Moody G 1910 Chicago, Ill.
Fellow in Physics, University of Chicago

Eliakim Hastings Moore CF 1903*† Chicago, Ill.
Professor of Mathematics, University of Chicago

Elwood S Moore G 1908 State College, Pa.
Professor of Geology, Pennsylvania State College

Edward James Moore G 1909 Oberlin, Ohio
Associate Professor of Physics, Oberlin College

John Colin Moore G 1909 Chicago, Ill.
Graduate Student in Paleontology, University of Chicago

Everett C Moulton U 1911 Chicago, Ill.
Student in Medical School, Northwestern University

Forest Ray Moulton CF 1903† Chicago, Ill.
Professor of Astronomy, University of Chicago

George William Myers C 1903 Chicago, Ill.
Professor of Mathematics, University of Chicago

Robert Kirkland Nabours G 1910 Manhattan, Kan.
Assistant Professor of Zoology, Kansas State Agricultural College

John Ulric Nef CF 1903† Chicago, Ill.
Professor of Chemistry, University of Chicago

Charles Hugh Neilson C 1903 St. Louis, Mo.
Director of Medical Department, St. Louis University

Horatio Hackett Newman G 1904 Chicago, Ill.
Associate Professor of Zoology, University of Chicago

Roy Herbert Nicholl G 1908 New York City
Professor Physiology and Biochemistry, Fordham University

John Foote Norton G 1909 Boston, Mass.
Instructor in Chemistry, Massachusetts Institute of Technology

Joseph Antonius Nyberg G 1911 Madison, Wis.
Instructor in Mathematics, University of Wisconsin

Fred William Owens G 1907 (Cornell F 1908; Kansas U 1901)
Instructor in Mathematics, Cornell University [Ithaca, N. Y.

William Abbott Owens G 1911 Duluth, Minn.
Professor of Psychology and Director of Training Department, Minnesota State Normal

James Patterson G 1906 Chicago, Ill.
Assistant in Anatomy, University of Chicago

John Thomas Patterson G 1906 Austin, Tex.
Adjunct Professor of Zoology, University of Texas

Flemming Allen Clay Perrin G 1911 Chicago, Ill.
Graduate Student, University of Chicago

Harvey Andrew Peterson G 1908 Normal, Ill.
Teacher, Illinois State Normal University

Joseph Peterson G 1907 Salt Lake City, Utah
Professor of Psychology, University of Utah

Peter Powell Peterson G 1908 Madison, Wis.
Research Assistant in Soil Analysis, University of Wisconsin

Loren Clifford Petry G 1911 Chicago, Ill.
Fellow in Botany, University of Chicago

Roswell Talmadge Pettet G 1911 Chicago, Ill.
Fellow in Pathology, University of Chicago

Norma Etta Pfeiffer G 1909 Chicago, Ill.
Fellow in Botany, University of Chicago

Wanda May Pfeiffer G 1907 Chicago, Ill.
Assistant in Botany, University of Chicago

Frank Henry Pike G 1906 New York City
Assistant Professor of Physiology, Columbia University

Arthur Dunn Pitcher G 1908 (Kansas U 1905) Lawrence, Kan.
Instructor in Mathematics, University of Kansas

Ethel Chamberlin Porter G 1909 East Orange, N. J.

Paul David Potter G 1911 Chicago, Ill.
Fellow in Chemistry, University of Chicago

Loran O Potterf G 1911 Chicago, Ill.
Graduate Student, University of Chicago

Charles Albert Proctor G 1903* (Missouri CF 1905) Hanover, N. H.
Assistant Professor of Physics, Dartmouth College

Brown Pusey G 1905 Chicago, Ill.
Professor of Ophthalmology, Northwestern Medical School

Stephen Walter Ranson G 1903 Chicago, Ill.
Professor of Anatomy, Northwestern University Medical School

Isaiah March Rapp G 1910 Collegeville, Pa.
Assistant Professor of Physics, Ursinus College

Guy A Reddick G 1911 Crawfordsville, Ind.

William John Reed G 1906 Washington, D. C.
Junior Geologist, U. S. Geological Survey

Daniel Graisberry Revell F 1904* Edmonton, Alberta
Bacteriologist, Province of Alberta

Florence Ella Richardson G 1906 Des Moines, Ia.
Assistant Professor of Psychology, Drake University

Howard Taylor Ricketts F 1903*
(Deceased 1910)

Oscar Riddle G 1907 Chicago, Ill.
Instructor in Therapeutics and Zoology, University of Chicago

Elmer Samuel Riggs G 1903 (Kansas G 1896) Chicago, Ill.
Assistant Curator, Field Museum of Natural History

George Willis Ritchey C 1903† Pasadena, Cal.
Astronomer, Mt. Wilson Solar Observatory

José I del Rosario G 1908 Manila, P. I.
Instructor in Chemistry, University of the Philippines

Jessie M Speer Rose G 1909 Milwaukee, Wis.

Marjory Scheel Rosing G 1908 St. Louis, Mo.
Instructor in Botany, Central High School

William Horace Ross F 1905 Tucson, Ariz.
Assistant Chemist, Agricultural Experiment Station

Gustav Ferdinand Ruediger G 1904* Grank Forks, N. D.
Professor of Bacteriology, University of North Dakota

John Gaston Ryan G 1907 Taintor, Ia.
Physician

Clark Harold Sackett G 1909 St. Louis, Mo.
Teacher of Botany, Soldan High School

Rollin D Salisbury CF 1903† Chicago, Ill.
Dean of Ogden Graduate School of Science, University of Chicago

Mildred Lenora Sanderson G 1911 Chicago, Ill.
Fellow in Mathematics, University of Chicago

Carl Ortwin Sauer G 1909 Chicago, Ill.
Fellow in Geography, University of Chicago

Hermann Irving Schlesinger G 1904 Chicago, Ill.
Assistant Professor of Chemistry, University of Chicago

George L Schnable G 1911 Chicago, Ill.

Daniel Martin Schoemaker G 1903 St. Louis, Mo.
Professor of Anatomy, School of Medicine, St. Louis University

Alfred Reginald Schultz G 1905 Washington, D. C.
Geologist, U. S. Geological Survey

Arthur Richard Schweitzer G 1907 Chicago, Ill.

John William Scott G 1903 Manhattan, Kan.
Instructor in Zoology, State Agricultural College

Lee Osborne Scott G 1903 Rockford, Ill.
Physician

Lester Whyland Sharp G 1910 Chicago, Ill.
Graduate Student, University of Chicago

Charles Houston Shattuck G 1907 Moscow, Ida.
Professor of Botany, University of Idaho

Eugene Wesley Shaw G 1906 Washington, D. C.
Assistant Geologist, U. S. Geological Survey

Ralph Edward Sheldon G 1907* (Cornell U 1905) Pittsburgh, Pa.
Assistant Professor of Anatomy, University of Pittsburgh

Victor Ernest Shelford G 1904 Chicago, Ill.
Instructor in Zoology, University of Chicago

Marian Lydia Shorey G 1906 (Brown G 1906) Milwaukee, Wis.
Professor of Biology, Milwaukee-Downer College

Charles Albert Shull G 1905 Lexington, Ky.
Professor of Biology and Geology, Transylvania University

George Harrison Shull G 1904† Cold Spring Harbor, L. I., N. Y.
Botanical Investigator, Carnegie Institution of Washington

Etoile Bessie Simons G 1905 Indianapolis, Ind.
Botanist, Manual Training School

Burton Jesse Simpson G 1904 Chicago, Ill.
Physician and Surgeon

John George Sinclair G 1911 Chicago, Ill.
Assistant in Zoology Laboratory, University of Chicago

Mary Emily Sinclair G 1904 Oberlin, Ohio
Associate Professor of Mathematics, Oberlin College

Herbert Ellsworth Slaught F 1904 Chicago, Ill.
Associate Professor of Mathematics, University of Chicago

James Rollin Slonaker CF 1903*† (Stanford F 1905) Palo Alto, Cal.
Assistant Professor of Physiology, Leland Stanford Junior University

Maud Slye G 1909 Chicago, Ill.
Fellow in Zoology, University of Chicago

Alexander Smith CF 1903*† New York City
Professor of Chemistry, Columbia University

Frances Grace Smith G 1903 Northampton, Mass.
Associate Professor of Botany, Smith College

George Bertrand Smith G 1903 Los Angeles, Cal.
Physician

Warren DuPré Smith G 1904 Manila, P. I.
Chief, Division of Mines, Bureau of Science

Laetitia Morris Snow A 1907 Wellesley, Mass.
Associate Professor of Botany, Wellesley College

Jennie M Speer G 1909 Milwaukee, Wis.
(Mrs Jennie M Speer Rose) Teacher of Botany, Milwaukee-Downer Seminary

Herman Augustus Spoehr G 1908 Tucson, Ariz.
Chemist, Carnegie Institute, Desert Laboratory

Anna Morse Starr G 1909 Chicago, Ill.
Fellow in Botany, University of Chicago

Frederick Starr CF 1903*† Chicago, Ill.
Associate Professor of Ethnology, University of Chicago

Clinton Raymond Stauffer G 1906 (Ohio G 1906) Cleveland, Ohio
Associate Professor of Geology, Western Reserve University

Thomas Calderwood Stephens G 1904 Sioux City, Ia.
Professor of Biology, Morningside College

Joseph Clark Stephenson G 1909 Chicago, Ill.
Fellow in Zoology, University of Chicago

George Neil Stewart F 1904*† Cleveland, Ohio
Professor of Experimental Medicine, Western Reserve University

Julius Stieglitz CF 1903*† Chicago, Ill.
Professor of Chemistry, University of Chicago

Arthur Grant Stillhamer G 1904 Bloomington, Ill.
Mechanical and Electrical Engineer

James Palm Stober G 1910 Myerstown, Pa.
Professor of Biology, Albright College

Alma Gracey Stokey G 1907 South Hadley, Mass.
Associate Professor of Botany, Mt. Holyoke College

Ole O Stoland G 1911 Chicago, Ill.
Graduate Student, University of Chicago

Reuben Myron Strong F 1904* Chicago, Ill.
Instructor in Zoology, University of Chicago

Frank A St. Sure G 1907 Colfax, Wash.
Physician

John Sundwall G 1905 Salt Lake City, Utah
Professor of Anatomy, University of Utah

Arthur Howard Sutherland G 1908 Urbana, Ill.
Associate in Psychology, University of Illinois

Charles Henry Swift G 1911 Chicago, Ill.
Assistant, Department of Anatomy, University of Chicago

Katashi Takahashi G 1904 Tokyo, Japan

William Arthur Tarr G 1910 Columbia, Mo.
Instructor in Geology, University of Missouri

Shiro Tashiro G 1909 Chicago, Ill.
Fellow in Physiology, University of Chicago

Ethel M Terry G 1909 Chicago, Ill.
Associate in Chemistry, University of Chicago

David Duke Todd G 1908 Chicago, Ill.
Physician

William Laurence Tower CF 1903*† Chicago, Ill.
Assistant Professor of Zoology, University of Chicago

Elizabeth Towle G 1904 Philadelphia, Pa.
Research Assistant, Carnegie Institute

Edward L Troxell G 1911 New Haven, Conn.
Student in Yale University

Charles Henry Turner G 1906 St. Louis, Mo.
Instructor in Biology, Summer High School

Edith Minot Twiss G 1909 Topeka, Kas.
Assistant Professor of Botany, Dean of Women, Washburn College

Joseph Edgar Tyree G 1905 Salt Lake City, Utah
Physician

John Andreas Udden G 1907 (Iowa G 1906) Chicago, Ill.
Illinois State Geological Survey, University of Chicago

Joseph Bertram Umpleby G 1909 Washington, D. C.
Assistant in Geology, U. S. Geological Survey

Anthony Lispenard Underhill G 1904* (Wisconsin F 1909) Minneapolis,
Assistant Professor of Mathematics, University of Minnesota [Minn.

Eugene VanCleef G 1909 Duluth, Minn.
Instructor in Geography, State Normal School

Oswald Veblen CF 1903*† Princeton, N. J.
Preceptor in Mathematics, Princeton University

Timotoe Dar Juan y Velilla G 1909 Manila, P. I.
Assistant Chemist, Bureau of Science

Stella B Vincent G 1909 Chicago, Ill.
Graduate Student in Psychology, University of Chicago

Charles Herman Viol G 1910 Chicago, Ill.
Assistant in Chemistry, University of Chicago

Charles L von Hess F 1911 Chicago, Ill.
Assistant in Pharmacology, Medical School, Northwestern University

Sidney Walker, Jr G 1909 Chicago, Ill.
Interne, Cook County Hospital

Chester Wesley Washburne G 1906 Buenos Aires, Argentina
Geologist, Ministerio de Obras Publicas

Leslie Henry Ward G 1904 Kalamazoo, Mich.
Head Department of Geography, Western Normal School

John Broadus Watson CF 1903*† Baltimore, Md.
Professor of Psychology, Johns Hopkins University

Karl Tinsley Waugh G 1907 Beloit, Wis.
Professor of Psychology, Beloit College

LeRoy Samuel Weatherby G 1909 Los Angeles, Cal.
Assistant Professor of Chemistry, University of Southern California

Ralph Waldo Webster CF 1903*† Chicago, Ill.
Physician, Rush Medical College

Ada Louise Weckel G 1905 (Michigan U 1905) Oak Park, Ill.
Teacher of Biology, High School

Clara Jean Weidensall G 1909 Bedford Hills, N. Y.
Director of Research, State Reformatory for Women

Stuart Weller CF 1903*† (Cornell U 1894) Chicago, Ill.
Associate Professor of Geology, University of Chicago

Harry Gideon Wells CF 1903*† (Yale U 1895) Chicago, Ill.
Associate Professor of Pathology, University of Chicago

Frank Howard Wescott G 1903 Hudson, Wyo.
Ranchman

Franklin Lorenzo West G 1911 Logan, Utah
Professor of Physics, Utah Argicultural College

Marion Ballantyne White G 1910 Lawrence, Kan.
Assistant Professor of Mathematics, University of Kansas

Harry Nichols Whitford G 1904* Manila, P. I.
Forester, U. S. Bureau of Forestry

Charles Otis Whitman CF 1903*†
(Deceased 1910)

Harry Lewis Wieman G 1908 Cincinnati, Ohio
Assistant Professor of Zoology, University of Cincinnati

Oswin William Willcox G 1904 Dover, N. J.
Consulting Chemist, U. S. Smokeless Powder Works

Samuel Wendell Williston CF 1903*† (Kansas F 1893) Chicago, Ill.
Professor of Paleontology, University of Chicago

Herrick East Wilson G 1911 Chicago, Ill.
Fellow in Paleontology, University of Chicago

John Gordon Wilson G 1903 Chicago, Ill.
Professor of Osteology, Northwestern University Medical School

Norman Richard Wilson G 1904* Winnipeg, Canada
Professor of Mathematics, Wesley College, University of Manitoba

Thomas MacMaster Wilson G 1905
(Deceased 1908)

George Winchester G 1903 (Washington F 1906) Washington, [Pa.
Professor of Physics, Washington and Jefferson College

Albert Woelfel G 1905 Chicago, Ill.
Instructor in Physiology, University of Chicago

Rollin Turner Woodyatt G 1908 Chicago, Ill.
Assistant Professor of Medicine, Rush Medical College

James Remus Wright G 1909 Manila, P. I.
Associate Professor of Physics, University of the Philippines

Robert Bradford Wylie A 1904* (Iowa F 1907) Iowa City, Ia.
Professor of Botany, Iowa State University

Shigeo Yamanouchi G 1905 Tokyo, Japan
Professor of Botany, Tokyo Teachers College

Clarence Stone Yoakum G 1908 Austin, Tex.
Adjunct Professor of Philosophy, University of Texas

Mary Sophie Young G 1908 Chicago, Ill.
Fellow in Botany, University of Chicago

MICHIGAN CHAPTER

University of Michigan, Ann Arbor, Michigan

Charter Dated May 26, 1903 Chapter Installed June 4, 1903

HISTORICAL SKETCH

The charter organizing this Chapter contains the names of thirty-five members of the faculty and graduates, who, as charter members, formed the nucleus of the present Chapter.

The first meeting of the new Chapter was held on June 4, 1903, at which Professor S. W. Williston, of Chicago, was present and formally installed the officers-elect. Since that time the Society has held three meetings annually for the transaction of business and for scientific addresses. It was not deemed desirable to have a larger number of meetings owing to the existence of an organization known as "The Research Club" which holds monthly meetings.

The first of the general addresses was given by Professor H. H. Donaldson, of Chicago, on March 24, 1904. The subsequent lectures have been May 19, 1904: Professor A. B. Prescott, on The Life of A. W. Hoffmann; December 14, 1904: Professor G. W. Patterson, on The Velocity of Sound; March 22, 1905: Professor E. W. Morley, Cleveland, on Recent Experiments on the Motion of the Earth Through the Luminiferous Ether; May 25, 1905: Professor F. G. Novy, on Recent Protozoal Researches; March 13, 1906: Professor W. F. Magie, Princeton, The Application of the Theory of Probabilities; May 15, 1906: Professor J. P McMurrich, Recent Theories of Brain Functions; December 12, 1906 Professor W. J. Hussey, New Studies of the Stars; March 22, 1907: Professor W. E. Castle, Harvard, The Experimental Study of Heredity; May 2, 1907: Professor W. H. Hobbs, The Grand Eruption of Vesuvious in 1906; December 5, 1907: Professor M. E. Cooley, Some Street Railway Problems; April 24, 1908: Professor S. W. Williston, Chicago, The Development of the Elephant; May 22, 1908: Professor V. C. Vaughn, The Chemistry of the Living Cell; December 14, 1908: Professor Filibert Roth, Forest Fires; April 29, 1909: Professor A. W. Hewlett, Irregularities of the Heart; December 9, 1909: Professor Karl E. Guthe, The Method of Science; March 23, 1910: Baron Dairoku Kikuchi, The New Japan; its Moral and Intellectual Development; May 23, 1910: Doctor Robt. B. Bean, Filipino Types; December 7, 1910: Professor Jacob Reighard, Adaptation.

The total number of those initiated in the University of Michigan Chapter up to January 1, 1912, is 501. The resident members for the year 1910- 1911 number 106.

F. G. N.

OFFICERS FOR 1911–12

President.....Frederick George Novy
Vice-President.....Charles Joseph Tilden
Recording Secretary.....Edward Dunbar Rich
Corresponding Secretary.....Edward Dunbar Rich
Treasurer.....Ermine Cowles Case
Councilor.....William Herbert Hobbs

MEMBERSHIP ROLL

Charles Christopher Adams F 1903* (Illinois F 1908) Urbana, Ill
Associate in Animal Ecology, University of Illinois

Lydia Maria Adams F 1904* St. Louis, Mo.
(Mrs Alton D DeWitt) Assistant City Bacteriologist

Edward William Adamson U 1903 Douglas, Ariz.
Chief Surgeon and Physician, Cochise County Hospital

James Howard Agnew U 1910 Ann Arbor, Mich.
Assistant Professor in Internal Medicine, University of Michigan

Harley Clifford Alger U 1907 Hillsdale, Mich.
Engineer

William Thomas Alliger U 1909 Philadelphia, Pa.
Chief Chemist, Harrison Safety Boiler Works

Whiting Alden U 1910 Ann Arbor, Mich.
Instructor in Forestry, University of Michigan

John Robins Allen F 1903* Ann Arbor, Mich.
Professor of Mechanical Engineering, University of Michigan

Courtney Derby Allington U 1906 Boston, Mass.
Manager, Allington and Curtis Manufacturing Company

Henry Clay Anderson F 1903 Ann Arbor, Mich.
Junior Professor of Engineering, University of Michigan

Francis Wirt Appleton U 1909 New York City
Engineer, New York Telephone Company

James Rae Arneill CG 1903† Denver, Col.
Associate Professor of Medicine, University of Colorado

Harry Loren Arnold U 1911 Owosso, Mich.
Physician

Louis Evans Ayres U 1908 Detroit, Mich.
Engineer

Ellen Botsford Bach G 1903 Kalamazoo, Mich.
Teacher of Biology, Central High School

Benjamin Franklin Bailey F 1903 Ann Arbor, Mich.
Junior Professor of Electrical Engineering, University of Michigan

Abel James Baker U 1904 Grand Rapids, Mich.
Physcian

Horace Burrington Baker U 1910 Ann Arbor, Mich.
Assistant in Zoology, University of Michigan

Reuben Wilfred Balcom F 1906* Nashville, Tenn.
Chief Chemist, U. S. Food and Drug Inspection Laboratory

Frederick Amos Baldwin CF 1903* St. Louis, Mo.
Professor of Pathology, American Medical College

Melvin Dana Baldwin U 1908 Grand Rapids, Mich.
Superintendent, Baldwin, Tuthill and Bolton

Ralph Feiner Barker U 1910 Pueblo, Col.

Joel Martin Barnes U 1905 Boston, Mass.
Treasurer, Harpham and Barnes Company

Albert Moore Barrett A 1904 Ann Arbor, Mich.
Professor of Psychistry and Nervous Diseases

Floyd Earl Bartell G 1908 Ann Arbor, Mich.
Instructor in Chemistry, University of Michigan

Owen Werner Bauer U 1911 Ann Arbor, Mich.
Student, University of Michigan

Harold Alexander Baxter U 1909 Philadelphia, Pa.
Metallurgist, Midvale Steel Company

Robert Bennett Bean F 1906* New Orleans, La.
Associate Professor of Anatomy, Tulane University

Verner A Belcher U 1911 New York City
Research Chemist, Western Electric Company

Charles Holbrook Benedict U 1911 Perry, N. Y.

Anna Christine Iverson Bennett Busrah, Turkish Arabia
(Mrs Arthur K Bennett) Physician, Arabian Mission

Ralph Beman U 1908 Cleveland, Ohio
Engineer, National Electric Lamp Association

Walfred Benson U 1907 Battle Creek, Mich.
Teacher

Samuel Lawrence Bigelow F 1903* Ann Arbor, Mich.
Professor of General and Physical Chemistry, University of Michigan

Elton Pope Billings U 1906 Grand Rapids, Mich.
Physician

Marion Le Roy Billings U 1909 Mt. Pleasant, Mich.
Teacher of Psychology and Education, Central State Normal School

John Serenus Bordner G 1907 Bristol, Ind.
Plant and Animal Breeding Station

Harry Bouchard U 1911 New York City
Assistant Engineer, The J. G. White Company

Joseph Nicholas Bourg U 1909 Omaha, Neb.

Wilbur Pardon Bowen CG 1903† Ypsilanti, Mich.
Professor of Physical Education, State Normal College

Bessie Emily Bowman U 1905 Duluth, Minn.
(Mrs Lorin H Jones)

Lawrence Ray Boyer U 1906 Washington, D. C.
Assistant, U. S. Bureau of Standards

Edward Milton Bragg F 1906 Ann Arbor, Mich.
Assistant Professor of Marine Engineering, University of Michigan

Samuel Craighead Brandon U 1906
(Deceased 1909)

Claude Brechner U 1911 Cleveland, Ohio
Teacher of Physics, Technical High School

Olga Louise Bridgman U 1910 Geneva, Ill.
Physician, State Training School

Harvey Clayton Brill G 1911 Oxford, Ohio
Assistant Professor of Chemistry, Miami University

Glenn B. Britton U 1907 Toledo, Ohio
Research Chemist, Guy G. Major Company

Roy Alton Brown U 1905 Philippine Islands
Physician

Warren David Brush G 1906 Washington, D. C.
Expert, United States Forest Service

William Carr Bulmer U 1909 Franklin, Pa.
Master Mechanic, American Steel Foundry

James Dennis Burby U 1911 New York City
Chemist, Electrical Testing Laboratories

Edward Morris Burd U 1911 Jackson, Mich.
Engineer, Commonwealth Power Company of Michigan

William Allds Burnham U 1909 Chicago, Ill.
Electrical Engineer

George Plumer Burns F 1904* Burlington, Vt.
Professor of Botany, University of Vermont

Frank Burton U 1907 Detroit, Mich.
Consulting Chemist

William Henry Buskirk U 1904 Miles City, Mont.
Physician and Surgeon

Carl Dudley Camp F 1911 Ann Arbor, Mich.
Professor, Diseases of Nervous System, University of Michigan

Edward DeMille Campbell F 1903*† Ann Arbor, Mich.
Professor of Chemical Engineering, University of Michigan

Myrtle Pearle Campbell U 1906 St. Louis, Mo.
(Mrs Benjamin B Gould)

Robert John Carney U 1907 Ann Arbor, Mich.
Instructor in Analytical Chemistry, University of Michigan

Gail Luke Carver U 1907 Macon, Ga.
Professor of Biology, Mercer University

Ermine Cowles Case F 1903* (Kansas U 1893) Ann Arbor, Mich.
Junior Professor of Geology and Paleontology, University of Michigan

Dana Brackenridge Casteel G 1903* (Pennsylvania G 1902) Austin, Tex.
Adjunct Professor of Zoology, University of Texas

Otto Leslie Castle U 1909 Kansas City, Mo.

Leroy William Childs U 1906 Atlanta, Ga.
Physician

Earle Hart Clapp U 1905 Washington, D. C.
Inspector, U. S. Forest Service

Alva Benson Clark U 1911 New York City
Assistant Engineer, American Telephone and Telegraph Company

Robert Watson Clark U 1908 Ann Arbor, Mich.
Instructor in Petrography, University of Michigan

Arthur Brooks Clawson G 1905 (Wisconsin CF 1907) Lake Forest, Ill.
Assistant Professor of Biology, Lake Forest University

Charles W Cobb G 1911 Amherst, Mass.
Assistant Professor in Mathematics, Amherst College

William Thomas Lee Cogger U 1910 Fostoria, Ohio
Engineer, National Electric Lamp Association

Walter Francis Colby G 1903 Ann Arbor, Mich.
Instructor in Physics, University of Michigan

Harrie Newton Cole U 1906* Ann Arbor, Mich.
Instructor in Analytical Chemistry, University of Michigan

Lee Holt Cone CF 1903* Ann Arbor, Mich.
Instructor in Chemistry, University of Michigan

Charles Wilfred Cook U 1906 Ann Arbor, Mich.
Instructor in Economic Geology, University of Michigan

William George Cook U 1904 Chicago, Ill.
Engineer

Mortimer Elwyn Cooley F 1903*† Ann Arbor, Mich.
Dean of Engineering Department, University of Michigan

Thomas Benton Cooley F 1903 Detroit, Mich.
Physician

Thurlow Emmett Coon U 1906 Detroit, Mich.
Engineer, The Coon-De Visser Company

Grace Beers Cooper U 1906 Kalamazoo, Mich.
Science Teacher, Portage Street High School

Otis Merriam Cope U 1904 Ann Arbor, Mich.
Instructor in Physiology, University of Michigan

David Murray Cowie F 1903* Ann Arbor, Mich.
Clinic Professor of Pediatrics, University of Michigan

Clyde Firman Craig U 1904 Ithaca, N. Y.
Instructor in Mathematics, Cornell University

Harry Wolven Crane G 1911 Ann Arbor, Mich.
Assistant in Sociology, University of Michigan

Howard Hasting Cummings U 1910 Ann Arbor, Mich.
Instructor in Gynecology and Obstetrics, University of Michigan

George Morris Curtis G 1910 Ann Arbor, Mich.
Instructor in Zoölogy, University of Michigan

Maynie Rose Curtis U 1905 Orono, Me.
Assistant in Biology, Agricultural Experiment Station, University of Maine

Ralph Hamilton Curtiss G 1907* (California G 1902) Ann Arbor, Mich.
Assistant Professor of Astronomy, University of Michigan

Arthur Robertson Cushny CF 1903* London, England
Professor of Pharmacology, University College, University of London

Alfred Paul Dachnowski G 1905* (Ohio F 1908) Columbus, Ohio
Assistant Professor of Botany, Ohio State University

John Franklin Daniel F 1910* Berkeley, Cal.
Assistant Professor of Zoology, University of California

Leo Harvey Darrow U 1910 New York City
Engineer, American Telephone and Telegraph Company

Raymond Cornwell Darrow U 1910 New York City
Engineer, American Telephone and Telegraph Company

Wirt Edward Darrow U 1911 Newark, N. J.
Plant Engineer, New York Telephone Company

Cassius Miles Davis G 1908 Schenectady, N. Y.
Consulting Engineer, General Electric Company

Joseph Baker Davis F 1909*† Ann Arbor, Mich.
Emeritus Professor of Geodosy, University of Michigan

John R Davis U 1909 Mexico City, Mex.
Physician

Harlow Noble Davock U 1909 Jackson, Mich.
Engineer

Jean Dawson G 1905* Cleveland, Ohio
Teacher of Biology, Cleveland Normal Training School

Arthur James Decker U 1905 Ann Arbor, Mich.
Instructor in Civil Engineering, University of Michigan

Paul Edward Demmler U 1905 Charleston, W. Va.
Consulting Chemist, Testing Laboratory

Charles Beylard de Nancrede F 1904* Ann Arbor, Mich.
Professor of Surgery, University of Michigan

John Henry De Visser U 1907 Detroit, Mich.
Engineer, The Coon-De Visser Company

Lydia Maria Adams DeWitt F 1904* St. Louis, Mo.
(Mrs Alton D DeWitt) Assistant City Bacteriologist

Stewart Lloyd DeWitt U 1911 Providence, R. I.
Interne, Rhode Island Hospital

Archibald Warren Diack G 1908 Detroit, Mich.
Chemist

M Everett Dick U 1906 Cape Town, South Africa
Chemist, Cape's Explosive Company

James Robert Dickson U 1908 Dauphin, Manitoba
Assistant Inspector, Dominion Forest and Game Preserves

Robert Livingston Dixon U 1910 Lansing, Mich.
Executive Officer, Michigan State Board of Health

George Dock F 1903*† St. Louis, Mo.
Professor of Medicine, Washington University Medical School

Fabian Bouton Dodds G 1907 Spokane, Wash.
Lawyer, U. S. Land Office

Albert Wilford Dorr CG 1903 Mt. Vernon, Ohio
Teacher of Science, High School

James Edwin Duerden F 1904* Grahamstown, Cape Colony
Professor of Biology, Rhodes University College

Frances Jewett Dunbar G 1905 Ann Arbor, Mich.
Assistant in Zoology, University of Michigan

David Christie Duncan U 1911 (Purdue F 1911) Lafayette, Ind.
Instructor in Physics, Purdue University

Frederick Levy Dunlap F 1903* Washington, D. C.
Associate Chemist, Bureau of Chemistry, Department of Agriculture

Lionel Herman Duschak U 1904* Corning, N. Y.
Research Chemist, Corning Glass Works

Richard d'Zeeuw U 1907 Lansing, Mich.
Graduate Student, University of Michigan

Katharine Louise Eager U 1909 Salt Lake City, Utah
Physician

Horace Matthew Edmands U 1909 Sault Ste. Marie, Mich.
Electrician, U. S. Engineering Office

Charles Wallis Edmunds CF 1903 Ann Arbor, Mich.
Professor of Materia Medica and Therapeutics, University of Michigan

John Edward Emswiler F 1908 (Ohio U 1903) Ann Arbor, Mich.
Instructor in Engineering, University of Michigan

Frances Mary Eschenburg U 1907 Corning, N.Y.
(Mrs Lionel Herman Duschak)

Edwin Walter Esslinger U 1907 Baltimore, Md,
Graduate Student, Johns Hopkins University

Edward King Evatt U 1910 Washington, D. C.
Construction and Repair Department, Navy Yard

Harold Kniest Faber U 1911 New York City
Interne, New York Hospital

Lemuel William Famulener CG 1903 New York City
Assistant Director, Research Laboratory, Department of Health

Frank Alexander Ferguson U 1908 Oshkosh, Wis.
Professor of Physics, State Normal School

Peter Field F 1903* (Minnesota G 1897) Ann Arbor, Mich.
Assistant Professor of Mathematics, University of Michigan

Frank Richard Finch U 1904 (Yale U 1904) Ann Arbor, Mich.
Instructor in Descriptive Geometry, University of Michigan

Walter Turner Fishleigh U 1906 Detroit, Mich.
Instructor in Drawing, University of Michigan

Victor Benedict Fitzpatrick U 1907 New Castle, Pa.
Engineer

Robert Stephenson Fleshiem U 1904 Detroit, Mich.
Sales Engineer, Allis-Chalmers Company

James Howard Flynn U 1909 Detroit, Mich.
Engineer, Michigan Central Railroad

Walter Burton Ford F 1903 Ann Arbor, Mich.
Junior Professor of Mathematics, University of Michigan

Otto Albert Freund U 1910 New York City
Engineer, American Telephone and Telegraph Company

Harry Henry Frost U 1908 Akron, Ohio
Engineer

John Gray Gage U 1908 Linville, N. C.
Physician

Joseph K Gannett U 1910 Cleveland, Ohio
Engineer, with Anton Burchard

Vera Placida Gardner U 1911 Los Angeles, Cal.
Assistant in Physiology, University of Southern California

John Carlyle Garrels U 1907 Detroit, Mich.
Expert, Solvay Process Company

William Van Nest Garretson F 1910 (Yale G 1904) Ann Arbor, Mich.
Instructor in Mathematics, University of Michigan

Louis Merwyn Gelston CG 1903
(Deceased 1906)

Edwin Leroy Gemmill U 1905 Pittsburgh, Pa.
Structural Engineer, Jones and Laughlin Steel Company

Harry Myers George U 1911 Leadville, Col.
Chemist, American Smelting and Refining Company

Quinter Olen Gilbert U 1909 Ann Arbor, Mich.
Assistant in Zoology, University of Michigan

Otto Charles Glaser F 1906* Ann Arbor, Mich.
Assistant Professor of Zoology, University of Michigan

Henry Allen Gleason F 1910*(Illinois G 1904) Ann Arbor, Mich.
Assistant Professor of Botany, University of Michigan

James Waterman Glover F 1903*† Ann Arbor, Mich.
Professor of Mathematics, University of Michigan

Henry Newell Goddard G 1910 Superior, Wis.
Professor of Biology, Normal School

Moses Gomberg CF 1903*† Ann Arbor, Mich.
Professor of Organic Chemistry, University of Michigan

Thomas DeWitt Gordon U 1909 Grand Rapids, Mich.
Physician

Alexander MacDonald Graver U 1905 Chicago, Ill.
Purchasing Agent, William Graver Tank Works

Clarence Jasper Green U 1908 Portland, Ore.
Power Salesman, Mount Hood Railway and Power Company

Albert Emerson Greene F 1906 Ann Arbor, Mich.
Professor of Civil Engineering, University of Michigan

Arthur Emery Greene F 1905 Leslie, Mich.
Physician

Clarence Wilson Greene G 1910 Albion, Mich.
Professor of Physics, Albion College

Charles Edward Griffin G 1909 San Bernardino, Cal.
Head of Science Department, High School

John Howell Griffith F 1909 Pittsburgh, Pa.
Engineer Physicist, Bureau of Standards

Herman John August Grossmann U 1911 Ann Arbor, Mich.
Student in Forestry, University of Michigan

Karl Eugen Guthe CF 1905*† (Iowa F 1906) Ann Arbor, Mich.
Professor of Physics, University of Michigan

William Jay Hale F 1905* Ann Arbor, Mich.
Assistant Professor of Chemistry, University of Michigan

William Worth Hale F 1908 Washington, D. C.
Pharmacologist, United States Hygienic Laboratory

Arthur Graham Hall F 1908* Ann Arbor, Mich.
Professor of Mathematics, and Registrar, University of Michigan

Asaph Hall F 1903*† Washington, D. C.
Professor of Mathematics, Naval Observatory

Stuart McCune Hamilton U 1909 Ann Arbor, Mich.
Instructor in Commerce, University of Michigan

Lucie Harmon U 1910 Milwaukee, Wis.
Teacher of Biology, West Division High School

Ruth Ellen Harrison U 1907 Olympia, Wash.
(Mrs Parish Storrs Lovejoy)

Robert Henry Haskell U 1910 Syracuse, N. Y.
Instructor in Anatomy, Syracuse University

Donald Theodore Hastings U 1907 Detroit, Mich.
Engineer, General Motors Company

Samuel Reese Haythorn U 1904 Pittsburgh, Pa.
Assistant Professor of Pathology, University of Pittsburgh

Lewis Henry Hector U 1905 Pittsburgh, Pa.
Physician

Robert Wilhelm Hegner F 1909* Ann Arbor, Mich.
Assistant Professor of Zoology, University of Michigan

John Helfman U 1904 Detroit, Mich.
Parke Davis Company

William D Henderson F 1908* Ann Arbor, Mich.
Assistant Professor of Physics, University of Michigan

Albion Walter Hewlett F 1909* Ann Arbor, Mich.
Professor of Internal Medicine, University of Michigan

Rufus Percival Hibbard G 1906* East Lansing, Mich.
Research Assistant in Plant Physiology, Michigan Agricultural College

Henry Harold Higbie F 1905* (Columbia G 1905) Boston, Mass.
Assistant Professor of Electrical Engineering, Wentworth Institute

George Oswin Higley F 1903* Delaware, Ohio
Professor of Chemistry, Ohio Wesleyan University

Theophil Henry Hildebrandt G 1907 Ann Arbor, Mich.
Instructor of Mathematics, University of Michigan

William Herbert Hobbs F 1906*† Ann Arbor, Mich.
Professor of Geology, University of Michigan

Edward Lawrence Hogan U 1905 Chicago, Ill.
Manager, Chicago Office, American Blower Company

Ray Kingsbury Holland U 1908 Ann Arbor, Mich.
With G. S. Williams, Consulting Engineer

Arthur Holmes U 1904 Syracuse, N. Y.
Engineer, H. H. Franklin Manufacturing Company

Samuel Jackson Holmes F 1903*† (Wisconsin CF 1907) Madison, Wis.
Assistant Professor of Zoology, University of Wisconsin

Raymond Barclay Hosken U 1910 Chicago, Ill.
Engineer

Alexis Charles Houghton U 1905 Syracuse, N. Y.
Chemist, Solvay Process Company

Charles Kent Houston U 1905 Minneapolis, Minn.
Manager, William B. Hough Company

Horace John Howk U 1907 Mt. McGregor, N. Y.
Physician, Tuberculosis Sanitarium

Gotthelf Carl Huber CF 1903*† Ann Arbor, Mich.
Professor of Histology and Embryology, University of Michigan

George Augustus Hulett CF 1903* Princeton, N. J.
Professor of Physical Chemistry, Princeton University

John Herman Hunt U 1905 (Ohio F 1907) Columbus, Ohio
Associate Professor of Electrical Engineering, Ohio State University

Walter Fred Hunt G 1906 Ann Arbor, Mich.
Instructor in Mineralogy, University of Michigan

Fred Walter Hunter G 1910 Rochester, N. Y.
Instructor in Chemistry, Universty of Rochester

Henri Th. Antoine de Leng Hus F 1910 Ann Arbor, Mich.
Instructor in Botany, University of Michigan

William Joseph Hussey F 1906*† Ann Arbor, Mich.
Professor of Astronomy, University of Michigan

Arthur Wheaton Ide U 1905 Brainerd, Minn.
Assistant Chief Surgeon, Northern Pacific Railway Hospital

Anna Christine Iverson U 1907 Busrah, Turkish Arabia
(Mrs Arthur K Bennett)
Medical Missionary

Andrew Douglas Jamieson U 1910 Detroit, Mich.
Engineer, City Waterworks

Clara Octavia Jamieson G 1905 Washington, D. C.
Assistant, United States Bureau of Plant Industry

Cyril Methodius Jansky U 1904* Madison, Wis.
Associate Professor of Engineering, University of Wisconsin

Herbert Spencer Jennings CF 1903*† Baltimore, Md.
Professor of Zoology, Johns Hopkins University

Ralph Drury Jennison U 1908 Owensboro, Ky.
Engineer

Robert Lee Jickling U 1911 Ann Arbor, Mich.
Graduate Student, University of Michigan

Clarence Thomas Johnston F 1911 Ann Arbor, Mich.
Professor Surveying and Geodesy, University of Michigan

Laurence Crane Johnson U 1910 Ann Arbor, Mich.
Assistant in Chemistry, University of Michigan

Charles Willis Johnson CG 1903* (Washington CF 1907) Seattle,
Dean of College of Pharmacy, University of Washington [Wash.

William Demorest Johnston U 1906 Butler, Pa.
Engineer, C. D. & P. Telephone Company

Albert Barnett Jones U 1910 Detroit, Mich.
Engineer, United States Lake Survey

Bessie Emily (Bowman) Jones U 1905 Duluth, Minn.
(Mrs Lorin H Jones)

George Abel Paul Kamperman F 1911 Ann Arbor, Mich.
Instructor in Obstetrics and Gynecology, University of Michigan

Clyde Fenworth Karshner U 1908 Big Rapids, Mich.
Physician

Calvin Henry Kauffman F 1904* (Cornell G 1903) Ann Arbor, Mich.
Instructor in Botany, University of Michigan

Lloyd Marley Keller U 1911 Rochester, N. Y.
Assistant Engineer, Rochester Light and Power Company

William Herbert Kempfer U 1906 Madison, Wis.
Assistant, Forest Products Laboratory

George Eaton Kephart U 1908 South Bend, Ind.
Engineer, Indiana and Michigan Electric Company

William Robertson Kepler U 1909 North Girard, Pa.
Engineer

Peter Keplinger U 1908 Wagon Wheel Gap, Col.
Assistant, United States Bureau of Forestry

Virgil Morrison Kime U 1906 Indianapolis, Ind.
Associate Actuary, American Central Life Insurance Company

Abraham Albert Klein U 1911 Pittsburgh, Pa.
Petrographer, Bureau of Standards, United States Government

Clarence Carl Knipmeyer U 1907 Terre Haute, Ind.
Associate Professor of Engineering, Rose Polytechnic Institute

Edward Henry Kraus F 1905* Ann Arbor, Mich.
Professor of Mineralogy, University of Michigan

Clarence Henry Kremers U 1906 Salt Lake City, Utah
Engineer

Julius Frank Kummel G 1907 Portland, Ore.
United States Forest Service

Lucas Petron Kyriakides G 1909 (Illinois F 1909) Cambridge, Mass.
Chemist.

Albee Lovejoy Ladd U 1908 St. Paul, Minn.
Civil Engineer

Fleeta Alberta Lamb U 1911 Aspen, Col.
Housekeeper

George William Lamke U 1906 (Washington CF 1910) St. Louis, Mo.
Assistant Professor of Electrical Engineering, Washington University

George Rogers La Rue F 1911 (Nebraska G 1908; Illinois F 1909)
Professor of Zoology, University of Michigan [Ann Arbor, Mich.

Elmer Claud Lawton U 1907 Buffalo, N. Y.
Draftsman, Lackawanna Bridge Company

Mary Frances Leach G 1904* Oxford, Ohio
Professor of Chemistry, Western College for Women

Frank Leverett F 1909*† Ann Arbor, Mich.
United States Geological Survey, Lecturer at University of Michigan

David J Levy U 1906 Detroit, Mich.
Physician

George W Cass Lightner U 1909 Toronto, Canada
Bridge Engineer, Grand Trunk Railway

Samuel Colville Lind F 1906* Ann Arbor, Mich.
Instructor in Chemistry, University of Michigan

George Allan Lindsay U 1905 St. Louis, Mo.
Instructor in Physics, Washington University

Warren Plimpton Lombard F 1903*† Ann Arbor, Mich.
Professor of Physiology, University of Michigan

Carlos Pointon Long U 1905 Cincinnati, Ohio
Chemist, Globe Soap Company

John Parker Loudon U 1908 North Yakima, Wash.
Physician

Clyde Elton Love U 1905 Ann Arbor, Mich.
Instructor in Mathematics, University of Michigan

Alfred Henry Lovell U 1909 Ann Arbor, Mich.
Instructor in Engineering, University of Michigan

Parish Storrs Lovejoy U 1907 Olympia, Wash.
Supervisor, United States Forest Service

Ruth Harrison Lovejoy U 1907 Olympia, Wash.
(Mrs Parish Storrs Lovejoy)

Nelson Ferris MacDuff U 1905 Albany, Ore.
Forester, United States Forest Service

Milber Marshall MacLean U 1909 Mishawaka, Ind.
Chemist, Dodge Manufacturing Company

Ward J MacNeal CG 1903* (Illinois F 1907) New York City
Lecturer, New York Post-Graduate Medical School

Daniel Handley McAllister U 1908 Provo City, Utah
Assistant Superintendent, Telluride Power Company

Edward Florince McCarthy U 1911 (Syracuse F 1911) Syracuse, N. Y.
Assistant Professor in Forestry, Syracuse University

Carl C McClelland U 1910 Detroit, Mich.
Physician

William Rennie McKinnon U 1910 Milwaukee, Wis.
Engineer, Allis-Chalmers Company

Robert Keith McMaster U 1910 Milwaukee, Wis.
Engineer, Allis-Chalmers Company

James Playfair McMurrich CF 1903*† Toronto, Canada
Professor of Anatomy, Toronto University

Jessie Jones McNall U 1908 Hastings, Mich.
Instructor in Botany, High School

Lawrence Ross McNamee U 1911 Gary, Ind.

Loren Wallace McOmber U 1907 Ann Arbor, Mich.
Engineer

James Everingham MacChesney U 1910 Pittsburgh, Pa.
Engineer, Riter-Conley Manufacturing Company

Herman William March F 1905 (Wisconsin CF 1907) Madison, Wis.
Assistant Professor of Mathematics, University of Wisconsin

James Harmon Marks U 1908 Ann Arbor, Mich.
Superintendent of Buildings and Grounds, University of Michigan

Mark Marshall U 1908 Ann Arbor, Mich.
Instructor in Therapeutics, University of Michigan

Roy Edwin Mattern U 1911 Detroit, Mich.
Draftsman, Russel Wheel and Foundry Company

Donald Maxwell Matthews U 1908 Manila, P. I.
Philippine Forest Service

Franklin Bush Mead U 1906 Fort Wayne, Ind.
Lincoln National Life Insurance Company

Frank John Mellencamp F 1909 Ann Arbor, Mich.
Instructor in Physics, University of Michigan

William Orville Mendenhall G 1911 Richmond, Ind.
Professor of Mathematics, Erlham College

Ambrose Pond Merrill G 1906 Provo, Utah
General Manager, Knight Power Company

Wendel John Meyer U 1911 Phildelphia, Pa.
Draftsman, Bureau of Construction and Repair, Navy Yard

Adelbert Philo Mills G 1909 Ithaca, N. Y.
Assistant Professor of Engineering, Cornell University

Herbert Cossitt Mitchell U 1909 La Grange, Ill.
Retired

Lyman Foote Morehouse G 1904 New York City
Engineer, American Telephone and Telegraph Company

Roger Sylvester Morris F 1904* St. Louis, Mo.
Associate Professor of Medicine, Washington University

William West Morris U 1908 Wallace, Ida.
Forester

Plinn Frederick Morse U 1909 Detroit, Mich.
Physician, Children's Free Hospital

Ralph Luther Morse CG 1903 Norwalk, Ohio
Physician

Walter Mulford G 1905* (Cornell U 1901) Ithaca, N. Y.
Professor of Forestry, Cornell University

James Frederick Munson CG 1903 Sonyea, N. Y.
Physician, Craig Colony

Ralph Murphy U 1908 Syracuse, N. Y.
Traveling Engineer, H. H. Franklin Company

Adrian John Neerken U 1906 Detroit, Mich.
Engineer, Packard Motor Car Company

Frederick Charles Newcombe CF 1903*† Ann Arbor, Mich.
Professor of Botany, University of Michigan

Byron Deloss Niles U 1903 Grand Ledge, Mich.
Physician

Carl Uno North U 1909 Cleveland, Ohio
Engineer, Brown Hoisting Machinery Company

Henry Hazard Norton U 1909 Detroit Mich.
Engineer, Frederick Stearns Company

Frederick George Novy CF 1903*† Ann Arbor, Mich.
Professor of Bacteriology, University of Michigan

Peter Olaus Okkelberg F 1909 (U 1906 Minnesota) Ann Arbor, Mich.
Instructor in Zoology, University of Michigan

Fredrick Arthur Osborn G 1907* (Washington CF 1907) Seattle, Wash.
Professor of Physics, University of Washington

Olive E Outwater U 1910 River Rouge, Mich.
Teacher of Mathematics, High School

Frank Keehn Ovitz U 1905 Pittsburgh, Pa.
Assistant Chemist, United States Bureau of Mines

Charles Herbert Otis U 1910 Ann Arbor, Mich.
Curator, Botanical Garden, University of Michigan

Clifford Emmett Paine U 1911 Ambridge, Pa.
Detailer, American Bridge Company

Russel Burr Palmer U 1911 Saginaw, Mich.
Engineer, Saginaw-Bay City Railroad Company

Ralzemond Drake Parker U 1905 Ann Arbor, Mich.
Assistant Professor of Electrical Engineering, University of Michigan

Christopher Gregg Parnall U 1904 Jackson, Mich.
Physician

Clarence Elmar Partch U 1909 Des Moines, Ia.
Instructor in Drawing, West High School

Charles Lawson Patterson U 1909 Pueblo, Col.
Engineer, Irrigating Lands Company

George Washington Patterson F 1903* Ann Arbor, Mich.
Professor of Electrical Engineering, University of Michigan

Charles Lanphier Patton G 1903 Springfield, Ill.
Physician, Prince Sanitarium

Raymond Pearl CF 1903* Orono, Me.
Head of Department of Biology, Agricultural Experiment Station

Grace Darling Peele U 1904 Brooklyn, N. Y.
Physician

U 1906 (Syracuse F 1910) Syracuse, N. Y. Leigh H Pennington
Assistant Professor of Botany, Syracuse University

Alfred Emery Perkins U 1908 Niagara Falls, N. Y.

Wendell LeRoy Perkins U 1911 Jackson, Mich.
Instructor in Physiography, Jackson High School

Reuben Peterson F 1903 Ann Arbor, Mich.
Professor of Obstetrics and Gynecology, University of Michigan

Frank Jay Phillips U 1906
(Deceased 1911)

Archie Burton Pierce F 1910* Ann Arbor, Mich.
Assistant Professor of Engineering, University of Michigan

Hugh Marion Pierce G 1911 Jackson, Mich.
Detailer, W. G. Fargo, Consulting Engineer

Adrian John Pieters G 1911 Hollister, Cal.
Student, Heidelburg, Germany

Walter Bowers Pillsbury CF 1903*† (Cornell G 1894) Ann Arbor, Mich.
Professor of Psychology, University of Michigan

Roy Alfred Plumb U 1906 Detroit, Mich.
Technical Director, Trussed Concrete Steel Company

James Barkley Pollock F 1910* Ann Arbor, Mich.
Junior Professor of Botany, University of Michigan

William Edward Post U 1904 Bridgeport, Conn.
Salesman, Locomobile Company of America

Elsie Seelye Pratt U 1904 Denver, Col.
Physician

Albert Benjamin Prescott CF 1903†
(Deceased 1905)

John Frederick Preston U 1906 Washington, D. C.
United States Forest Service

Horace Patton Ramey U 1907 Chicago, Ill.
Assistant Engineer, City Sanitary District

Harrison McAllister Randall F 1906* Ann Arbor, Mich.
Junior Professor of Physics, University of Michigan

Webster Hamilton Ransom U 1909 Libby, Mont.
Forester, United States Forest Service

Katherine Piatt Raymond U 1905 Wellesley, Mass.
Physician, Wellesley College

John Oren Reed F 1904*† Ann Arbor, Mich.
Dean of Science and Arts, University of Michigan

Howard Sprague Reed CG 1903* (Missouri CF 1905) Blacksburg, Va.
Professor of Bacteriology, Virginia Polytechnic Institute

Ralph John Reed U 1908 Los Angeles, Cal.
Engineer, Union Oil Company

Jacob Ellsworth Reighard F 1909*† Ann Arbor, Mich.
Professor of Zoölogy, University of Michigan

Daniel Leslie Rich G 1908 Ann Arbor, Mich.
Instructor in Physics, University of Michigan

Edward Dunbar Rich F 1908 (Rensselaer U 1895) Ann Arbor, Mich.
Assistant Professor of Engineering, University of Michigan

George Fletcher Richmond CG 1903 Manila, P. I.
Chemist, Bureau of Science

Henry Earle Riggs A 1899 Ann Arbor, Mich.
Consulting Engineer

Charles Adolph Robertson U 1907 Centreville, Ia.

Charles Summers Robinson U 1907 East Lansing, Mich.
Research Chemist, University of Michigan Experiment Station

Louis Francisco Ross U 1907 Richmond, Ind.
Physician

Augustus Henry Halyard Roth CG 1903* Erie, Pa.
Physician and Surgeon, St. Vincent's Hospital

Filibert Roth F 1903* (Cornell F 1900†) Ann Arbor, Mich.
Professor of Forestry, University of Michigan

George Byron Roth G 1909 Ann Arbor, Mich.
Instructor in Pharmacology, University of Michigan

Sidney Rumney Russel U 1904 Detroit, Mich.
Engineer, Great Lakes Engineering Department

Alexander Stuart Russell U 1908 Los Angeles, Cal.
Engineer, El Segundo Oil Refinery

Israel Cook Russell CF 1903*
(Deceased 1906)

George Stanley Rutherford U 1910 Ann Arbor, Mich.
Graduate Student, University of Michigan

Alexander Grant Ruthven G 1904* Ann Arbor, Mich.
Assistant Professor of Zoology, University of Michigan

Herbert Charles Sadler CF 1903 Ann Arbor, Mich.
Professor of Naval Architecture, University of Michigan

John Thomas Sample U 1908 Saginaw, Mich.
Physician

Julius Otto Schlotterbeck CF 1903*† Ann Arbor, Mich.
Dean, School of Pharmacy, University of Michigan

Harry Burke Schmidt U 1911 Ann Arbor, Mich.
Interne, University of Michigan Hospital

Irving Day Scott G 1907* Ann Arbor, Mich.
Instructor in Geology, University of Michigan

Walter Glenn Scott U 1909 Orville, Ohio
Allis-Chalmers Company

William James Shackelton U 1909 New York City
Laboratory Engineer, Western Electric Company

William Day Shannon U 1907 Sumner, Wash.
Assistant Superintendent, Stone and Webster Engineering Corporation

Harold Hutchison Shearer U 1908 Brooklyn, N. Y.
District Engineer, New York Telephone Company

John Frederick Shepard F 1904* Ann Arbor, Mich.
Assistant Professor of Psychology, University of Michigan

Aaron Franklin Shull U 1908 Ann Arbor, Mich
Instructor in Zoology, University of Michigan

Harry Augustus Shuptrine U 1909 Mt. Vernon, Ohio
Draftsman, Mt. Vernon Bridge Company

Ernest McPherson Sims U 1908 Toronto, Canada
Engineer

Emory Walter Sink U 1911 Ann Arbor, Mich.
Assistant in Zoology, University of Michigan

George Slocum F 1911 Ann Arbor, Mich.
Demonstrator in Ophthalmology, University of Michigan

William Gabb Smeaton F 1906 Ann Arbor, Mich.
Assistant Professor of Chemistry, University of Michigan

Bertram Garner Smith U 1907 (Syracuse F 1907; Wisconsin F 1909)
Graduate Student, Columbia University [New York City

Charles Stowell Smith U 1905 San Francisco, Cal.
Forester, United States Department of Agriculture

Richard A Smith G 1911 Lansing, Mich.
Assistant State Geologist, Michigan Geological Survey

Seward Dwight Smith U 1910 Washington, D. C.
Assistant, United States Forest Service

Stephen Herbert Smith U 1905 Cleveland, Ohio
Physician, Lakeside Hospital

Thomas Albert Smith U 1909 Grand Rapids, Mich.
City Engineer

Frank William Smithies U 1904 Rochester, Minn.
Physician, St. Mary's Hospital

Clarence Snow U 1908 Salt Lake City, Utah
Physician

Harry Alfred Snow U 1911 Cleveland, Ohio
Apprentice, National Electric Lamp Association

Robert Earle Snyder G 1907 (Case F 1907) Cleveland, Ohio
Instructor in Physics, Case School of Applied Science

Thomas Claude Spaulding G 1909 St. Marie's, Ida.
Forester, United States Forest Service

Olenus Lee Sponsler U 1910 Lincoln, Neb.
Associate Professor of Forestry, University of Nebraska

Charles Willett Spooner U 1906 Ann Arbor, Mich.
Engineer with Henry E. Riggs

Benjamin William Sprau U 1911 Erie, Pa.
Superintendent, Erie City Boiler Company

Sherwood Hubbard Standish U 1905 Racine, Wis.
General Manager, Racine Steel Castings Company

Edna Steinhardt G 1910 New York City
Research Laboratory, City Board of Health

Alviso Burdett Stevens, Jr F 1907† Ann Arbor, Mich.
Junior Professor of Pharmacy, University of Michigan

Norman Hamilton Stewart G 1910 Lewisburg, Pa.
Professor of Organic Science, Bucknell College

Morris Henry Stimson U 1903 Flint, Mich.
Manager, Buick Motor Company

Wilfred Napoleon St. Peter U 1905 Big Rapids, Mich.
Instructor in Physics, Ferris Institute

George Linius Streeter F 1911 Ann Arbor, Mich.
Professor of Anatomy, University of Michigan

George Gottlieb Stroebe F 1907 Manila, P. I.
Engineer, Bureau of Public Works

Sidney Davis Strong U 1907 Sault Ste. Marie, Mich.
Junior Engineer, United States Engineering Department

Eliot William Studer U 1910 Detroit, Mich.
Engineer, American Car and Foundry Company

Harry Laurence Tanner U 1908 Ann Arbor, Mich.
Instructor in Engineering, University of Michigan

Joseph Luther Thalman G 1908 Oak Park, Ill.
Teacher of Botany, High School

Crystal Thompson G 1910 Ann Arbor, Mich.
Scientific Assistant, University of Michigan Museum

Robert Richardson Thomas U 1904 Battle Creek, Mich.
Local Manager, Commonwealth Power Company

Isaac Jay Thorp U 1906 Newark, N. J.
Engineer

Lambert Thorp G 1911 Ann Arbor, Mich.
Assistant in General Chemistry, University of Michigan

Charles Joseph Tilden F 1907* Ann Arbor, Mich.
Professor of Civil Engineering, University of Michigan

Ralph Russell Tinkham G 1906 Detroit, Mich.
Engineer, Eleventh Lighthouse District, United States Government

Leroy Tileston U 1911 Louisville, Ky.
Student, Louisville College of Dentistry

Arturo Torregrosa U 1906 Aguadilla, Porto Rico
Physician

Nelson Elbridge Tousley U 1904 East Watertown, Mass.
Chemist, Hood Rubber Company

Reuben Simkin Tour U 1910 New York City
Assistant Superintendent, Consolidated Gas Company

Kenneth William Tracy G 1911 Detroit, Mich.
Manager, Formula and Cost Department, Frederick Sterns and Company

Edgar Nelson Transeau CG 1903* Charleston, Ill.
Professor of Botany, State Normal School

Charles Earl Turner U 1909 Denver, Col.
Hydrographer, State Engineer

Benjamin Sayre Tuthill U 1909
(Deceased 1910)

Don Orville Tylee U 1910 East Pittsburgh, Pa.
Special Apprentice, Westinghouse Machine Company

Jay DeWitt Utley, Jr U 1907 Winthrop Harbor, Ill.
Engineer

Donald Dexter Van Slyke U 1905* New York City
Associate Chemist, Rockefeller Institute for Medical Research

James Gerritt Van Zwaluwenburg U 1907 Ann Arbor, Mich.

John Walter Vaughan CG 1903 Detroit, Mich.
Physician

Victor Clarence Vaughan CF 1903*† Ann Arbor, Mich.
Dean of Department of Medicine, University of Michigan

Victor Clarence Vaughan, Jr G 1903* Detroit, Mich.
Physician

Frank Vaughn U 1907 Hamilton, Ohio
Engineer

Warren Jay Vinton U 1911 Detroit, Mich.
Secretary, Vinton Company

Oswald Martin Wagenseil U 1907 Brooklyn, N. Y.
Engineer

Allison Walker U 1911 Claremont, N. H.
Mechanical Engineer, Sullivan Machinery Company

Howard George Walker U 1908 New York City
Research Chemist, Western Electric Company

James Herbert Walker U 1911 Detroit, Mich.
Engineer, Central Heating Company

Ralph Eric Walker U 1907 Montclair, N. J.
Physician, United States Navy Department (Retired)

Erwin Van Doren Wallace U 1907 St. Louis, Mo.

Hiram Lessiter Walton U 1908 Detroit, Mich.
Assistant Engineer, Smith, Hinchman and Grylls

Roy Elsen Ward U 1910 Massena, N. Y.
Engineer, Long Sault Development Company

Luther Fiske Warren U 1909 Ann Arbor, Mich.
Instructor in Microscopy, University of Michigan

Aldred Scott Warthin CF 1903*† Ann Arbor, Mich.
Professor of Pathology, University of Michigan

Ada Louise Weckel U 1905 Oak Park, Ill.
Teacher of Biology, High School

Edward Howland Weld U 1907 Rockford, Ill.
Physician

Gertrude Webster Welton U 1910 Waterbury, Conn.
Physician, New York Infirmary for Women and Children

Edward Christopher Wente U 1911 Westgate, Ia.

Clarence Jay West G 1910 Ann Arbor, Mich.
Assistant in Chemistry, University of Michigan

George Benson Wheeler U 1908 Brooklyn, N. Y.
Chemical Engineer

Harold Sayre Wheeler G 1910 Tacoma, Wash.
Vice President, Far West Lumber Company

Sybil May Wheeler G 1904 North Yakima, Wash.
(Mrs Charles Edgar Keeler)

Alfred Holmes White F 1909* Ann Arbor, Mich.
Professor of Engineering, University of Michigan

Lyle Antrim Whitsit U 1905 Massena, N. Y.
Engineer

Carl John Wiggers U 1906* New York City
Instructor in Physiology, Cornell University Medical College

Ralph Benjamin Wiley U 1906 Lafayette, Ind.
Assistant Professor of Engineering, Purdue University

Frederic Wilson Willard U 1906 Newark, N. J.
Chemist, Western Electric Company

Hobart Hurd Willard CG 1903* Ann Arbor, Mich.
Assistant Professor of Chemistry, University of Michigan

Vernon Justice Willey U 1909 Kalamazoo, Mich.

Gardner Stewart Williams F 1903*† (Cornell F 1901) Ann Arbor, Mich.
Consulting Engineer

Warren Benjamin Williams U 1908 Table Mound, Kan.
Engineer, United Kansas Portland Cement Company

Levi Philip Ray Willoughby G 1909 Jeffersonville, Ind.

George William Winslow U 1911 Phillipsburg, N. J.
Draftsman, Ingersoll-Rand Company

Harro Woltmann U 1905 Mansfield, Ohio
Physician

Neal Naramore Wood U 1908 Washington, D. C.
First Lieutenant, United States Medical Corps

John Joseph Woolfenden G 1906 Detroit, Mich.
Draftsman

Paul Bartholomew Work U 1911 Tri-Mountain, Mich.
Interne, Copper Range Hospital

Earl N Worth U 1908 Kalamazoo, Mich.
Principal, Central High School

Clarence George Wrentmore F 1905 Manila, P. I.
Engineer, Bureau of Public Works

Winthrop Robins Wright U 1909 Atlanta, Ga.
Instructor, Georgia School of Technology

Elizabeth Dorothy Wuist G 1911 Ann Arbor, Mich.
Assistant in Botany, University of Michigan

Oscar Herman Wurster U 1905 Toronto, Canada
Assistant Manager, Lever Brothers, Ltd.

Leigh Jarvis Young G 1911 Ann Arbor, Mich.
Instructor in Silviculture, University of Michigan

Charles Christian Zabriskie U 1907 Walkerville, Ont.
Engineer, Canadian Bridge Company

Karl Wilhelmj Zimmerschied U 1904 Detroit, Mich.
Chief Metallurgist, General Motors Company

Alexander Ziwet CF 1903*† Ann Arbor, Mich.
Professor of Mathematics, University of Michigan

Stanislaus Jan Zowski-Zwierzchowski F 1909 Ann Arbor, Mich.
Junior Professor of Engineering, University of Michigan

ILLINOIS CHAPTER

University of Illinois, Urbana, Illinois.

Charter Dated Dec. 17, 1903 Chapter Installed May 16, 1904

HISTORICAL SKETCH

Application for a Charter for the establishment of a Chapter of Sigma Xi at the University of Illinois was made in the spring of 1903, and the Charter was granted December 17, 1903. The Illinois Chapter was organized February 10, 1904. The public installation of the Chapter was held on May 16, 1904, at which time Professor Samuel W. Williston, then President of the National Society, delivered an address on Scientific Research. What may well be called the first regular scientific meeting of the Chapter was held November 28, 1904, and since that time there have been held annually from four to eight regular scientific meetings. At these scientific meetings there are presented, in general, the results of investigations that have considerable general scientific interest.

One of the regular features of our Commencement Week Exercises at the University, since the Commencement of 1906, is the annual address given under the joint auspices of the chapters of Phi Beta Kappa and Sigma Xi.

The Illinois Chapter has not neglected altogether the social element in its meetings. After the more or less formal business or scientific part of a meeting refreshments are very often served and a social hour is enjoyed.

H. L. R.

PUBLICATIONS

By-Laws of the Illinois Chapter of the Society of the Sigma Xi, Urbana, Illinois, 1907. pp. 8.

OFFICERS FOR 1911–12

President ..... Charles Frederick Hottes
Vice-President ..... Thomas Edmund Savage
Recording Secretary ..... James Harvey Pettit
Corresponding Secretary ..... Henry Lewis Rietz
Treasurer ..... Edward Night Nashby
Councilor ..... Stephen Alfred Forbes

MEMBERSHIP ROLL

Edwina Eunice Abbott G 1909 Poughkeepsie, N. Y.
Assistant in Physiology, Vassar College

William Lamont Abbott A 1909† Chicago, Ill.
Engineer, Chicago Edison Company

Duff Andrew Abrams F 1909 Urbana, Ill.
Associate in Engineering Experiment Station, University of Illinois

Charles Christopher Adams F 1908* (Michigan F 1903) Urbana, Ill.
Associate in Animal Ecology, University of Illinois

Milton Kent Akers U 1905 Pullman, Wash.
Assistant Professor of Electrical Engineering, Washington State College

William Fitch Allen F 1910 (Stanford A 1907) Minneapolis, [Minn.
Instructor in Histology, University of Minnesota

Wynfred Emory Allen F 1910 (Nebraska G 1905) Venice, Cal.
Teacher, High School

Fred Gray Allison F 1909 Fillmore, Sask.
Farmer

Harry Orson Allison U 1906 Columbia, Mo.
Assistant Professor of Animal Husbandry, University of Missouri

Thomas Hamer Amrine U 1906 Harrison, N. J.
Engineer, General Electric Company

Arvid Robert Anderson U 1911 Urbana, Ill.
Graduate Scholar in Electrical Engineering, University of Illinois

Samuel Herbert Anderson G 1911 Urbana, Ill.
Fellow in Physics, University of Illinois

George Frederick Arps F 1910 (Indiana F 1909) Champaign, Ill.
Assistant Professor of Psychology, University of Illinois

Joseph Paul Aumer U 1908 Urbana, Ill.
Assistant in Chemistry, Agricultural Experiment Station, University of Illinois

Irwin Woodward Bach G 1909 Chicago, Ill.
Student, Rush Medical College

Rufus Mather Bagg F 1907*† Appleton, Wis.
Professor of Geology, Lawrence College

William Chandler Bagley F 1908*† (Cornell G 1900) Urbana, Ill.
Director, School of Education, University of Illinois

Ernest Winfield Bailey G 1909* Urbana, Ill.
Associate in Horticulture, University of Illinois

Harry Foster Bain F 1905*† (Chicago CF 1904) San Fran- [cisco, Cal.
Editor, Mining and Scientific Press

John Wallace Baird F 1906* (Cornell G 1902) Worcester, Mass.
Professor of Psychology, Clark University

Ira Osborn Baker CF 1903*† Urbana, Ill.
Professor of Civil Engineering, University of Illinois

Ray Luzerne Baker U 1907 Madison, Wis.
Instructor in Experimental Engineering, University of Wisconsin

Clarence William Balke F 1907 (Pennsylvania G 1905) Urbana, Ill.
Assistant Professor of Chemistry, University of Illinois

William Salisbury Ballard U 1904 Washington, D. C.
Assistant Pathologist, Bureau of Plant Industry

George John Balzer G 1909 Milwaukee, Wis.

Susan Jessie Barr U 1906 Santa Barbara, Cal.
Teacher in Public Schools

James Theophilus Barrett F 1908 Urbana, Ill.
Associate and Chief Assistant in Botany, University of Illinois

Edward Bartow F 1905*† (Kansas F 1898) Urbana, Ill.
Director of State Water Survey, University of Illinois

John Besler Bassett U 1911 Schenectady, N. Y.
Student Engineer, General Electric Company

Stuart Jeffrey Bates G 1911 Urbana, Ill.
Fellow in Physical Chemistry, University of Illinois

Frank Stanley Bauer U 1911 Boulder, Col.
Instructor in Mechanical Engineering, University of Colorado

Florence Gabrielle Baxter U 1911 Urbana, Ill.
Scholar in Mathematics, University of Illinois

William Shirley Bayley F 1907*† Urbana, Ill.
Associate Professor of Mineralogy and Economic Geology

George Denton Beal F 1911 (Columbia G 1910) Urbana, Ill.
Instructor in Chemistry, University of Illinois

Frank Christian Becht F 1910* (Chicago G 1907) Urbana, Ill.
Assistant Professor of Physiology, University of Illinois

James Edgar Bell G 1911 (Chicago G 1909) Urbana, Ill.
Assistant in Chemistry, University of Illinois

Rodney Linton Bell U 1909 West York, Ill.

Alfred Rittscher Bench U 1906 Galena, Ill.
Sales Office, Taylor Iron and Steel Company

Claudius Edmund Bennett G 1910 (Nebraska U 1909) Urbana, Ill.
Fellow in Electrical Engineering, University of Illinois

Elizabeth Ruth Bennett G 1908 Urbana, Ill.
Scholar in Mathematics, University of Illinois

Ernst Julius Berg F 1910* Urbana, Ill.
Professor of Electrical Engineering, University of Illinois

Charles Hugh Bethel U 1907 Pittsburgh, Pa.
Apprentice, Westinghouse Electric and Manufacturing Company

Isabel Bevier CF 1903* Urbana, Ill.
Professor of Household Science, University of Illinois

Lewis Isaac Birdsall G 1909 Rock Island, Ill.
Chemist and Superintendent of Filtration Plant

Joseph Cullen Blair CF 1903*† Urbana, Ill.
Professor of Pomology, Chief of Horticulture, University of Illinois

Raymond Silliman Blatchley F 1908 Urbana, Ill.
Assistant Geologist, Illinois State Geological Survey

Albert Victor Bleininger F 1910* (Ohio U 1901) Urbana, Ill.
Professor of Ceramics, University of Illinois

Frank Walker Bliss G 1909 Minneapolis, Minn.
Instructor in Chemistry, University of Minnesota

Harry Clow Boardman U 1910 Chicago, Ill.
Draftsman, Chicago Bridge and Iron Works

Julius Valentine Bopp U 1908 New Memphis, Ill.

Robert Lacey Borger F 1908* (Chicago G 1904) Urbana, Ill.
Associate in Mathematics, University of Illinois

Napoleon Hiram Boynton U 1909 Cleveland, Ohio
With National Electric Lamp Association

Herbert Amery Brand U 1908 Urbana, Ill.

Royden Earl Brand U 1909 Urbana ,Ill.
Associate in Dairy Husbandry, University of Illinois

Walter Charles Emil Braum U 1904
(Deceased 1905)

Lester Paige Breckenridge CF 1903*† New Haven, Conn.
Professor of Mechanical Engineering, Yale University

Charles F Briscoe F 1911 Urbana, Ill.
Instructor in Botany, University of Illinois

Ira Sanford Brooks U 1908 Brandywine, Md.
Manager, Deere Farm

John Pascal Brooks F 1907 Potsdam, N. Y.
Director, Clarkson School of Technology

Morgan Brooks CF 1903*† (Nebraska F 1899) Urbana, Ill.
Professor of Electrical Engineering, University of Illinois

Briggs Odd Brown U 1908 Urbana, Ill.

Fay Cluff Brown G 1905* (Iowa F 1910) Iowa City, Ia.
Assistant Professor of Physics, State University of Iowa

John Howard Brown G 1909 Cambridge, Mass.

Avery Brundage U 1909 Chicago, Ill.
Architect, Holabird and Roche

John Myron Bryant F 1907* Urbana, Ill.
Assistant Professor of Electrical Engineering, University of Illinois

John Lee Buchanan U 1904 Chicago, Ill.
Transformer Specialist, General Electric Company

Thomas Buck F 1910* (Chicago G 1909) Berkeley, Cal.
Instructor in Mathematics, University of California

Jessie Jane Bullock G 1906 Tacoma, Wash.
(Mrs Herbert Kastner)

George Francis Burch U 1909 Springfield, Ill.
State Highway Commission

Laurie Lorne Burgess F 1910 Urbana, Ill.
Associate in Chemistry, University of Illinois

Paul Steere Burgess G 1911 Urbana, Ill.
Assistant in Bacteriology, University of Illinois

Charles Eldrid Burke G 1911 Brantford, Ont.

Deane Burns U 1907 Cleveland, Ohio
Director, Research Laboratories, National Carbon Company

Josephine Elizabeth Burns G 1911 Madison, Wis.
Fellow in Mathematics, University of Wisconsin

Opal Burres G 1909 Urbana, Ill.
Fellow in Zoology, University of Illinois

Thomas Jonathan Burrill CF 1903*† Urbana, Ill.
Vice-President and Professor of Botany, University of Illinois

Horace Leland Bushnell U 1908 Seattle, Wash.
Plan Inspector, City Building Department

Archie Stanton Buyers U 1908 Urbana, Ill.
Instructor in Engineering, University of Illinois

Gilbert Haven Cady F 1910 (Northwestern G 1907) Urbana, Ill.
Assistant Geologist, Illinois State Geological Survey

Will Carleton Caldwell U 1911 Chicago, Ill.
Superintendent of Construction, Holabird and Roche, Architects

Albert Pruden Carman CF 1903*† Urbana, Ill.
Professor of Physics, University of Illinois

Berton Eugene Carmichael U 1905* Wooster, Ohio
In charge of Animal Husbandry, Ohio Agricultural Experiment Station

Orson Allen Carnahan U 1910 Philadelphia, Pa.
Instructor, University of Pennsylvania

Frederic Walton Carpenter F 1906* Urbana, Ill.
Assistant Professor of Zoology, University of Illinois

Maurice Leroy Carr U 1905 Chicago, Ill.
Engineer, National Board of Underwriters' Laboratory

William Ernest Carroll G 1911 Oderville, Utah

John Watrous Case F 1909 Detroit, Mich.
Architect

Orlo Dorr Center U 1905 Springfield, Ill.
Superintendent, Illinois State Farmers' Institute

Henry Livingston Coar CF 1903* Marietta, Ohio
Professor of Mathematics, Marietta College

Walter Castella Coffey U 1906 Urbana, Ill.
Assistant Professor of Sheep Husbandry, University of Illinois

Byron Kemp Coghlan U 1908 Sacarro, N. M.
Professor of Civil Engineering, New Mexico School of Mines

Clyde Bestor Coleman U 1907 New Windsor, Ill.

Ray Arthur Collins U 1909 Manila, P. I.
Chief of Survey Party, Bureau of Lands

Stephen Sheldon Colvin F 1907* Urbana, Ill.
Professor of Psychology, University of Illinois

Allen Burton Cooke U 1907 Danville, Ill.

Charles Spencer Crandall CF 1903 Urbana, Ill.
Professor of Pomology, University of Illinois

Arthur Robert Crathorne F 1908* Urbana, Ill.
Associate in Mathematics, University of Illinois

Clifford Crosby U 1905 Kewanee, Ill.

Lawrence Everett Curfman U 1905 Pittsburg, Kan.
City Engineer

Richard Sydney Curtiss F 1904 (Union F 1901) Pasadena, Cal.
Professor of Chemistry, Throop Institute

Stanley Gardner Cutler U 1908 Manila, P. I.
Bureau of Public Works

Eugene Davenport CF 1903*† Urbana, Ill.
Dean of the College of Agriculture and Professor of Thremmatology

Ralph Emerson Deets U 1908 Sterling, Ill.
With International Harvester Company

William Maurice Dehn CF 1903* (Washington F 1908) Seattle, Wash.
Assistant Professor of Chemistry, University of Washington

William Wells Denton F 1909 Urbana, Ill.
Fellow in Mathematics, University of Illinois

Clarence George Derick F 1909* Urbana, Ill.
Associate in Chemistry, University of Illinois

James Ansel Dewey U 1904 Armstrong, Ill.
Farmer

Frank Walbridge DeWolf F 1908 Urbana, Ill.
Director, Illinois State Geological Survey

William Dietrich F 1909 Urbana, Ill.
Assistant Professor of Swine Husbandry, University of Illinois

Henry Bernhard Dirks U 1904 Chicago, Ill.
Mechanical Engineer, National Machine Works

Edward Lewis Dodd F 1906 (Yale G 1904) Austin, Tex.
Professor of Mathematics, University of Texas

Robert Ernest Doherty U 1909 Schenectady, N. Y.
With General Electric Company

Frederick William Doolittle F 1908 (Colorado F 1909) Madison, Wis.
Assistant Professor of Engineering, University of Wisconsin

Herman Douthitt G 1911 Urbana, Ill.
Fellow in Zoology, University of Illinois

Edgar Dwight Doyle U 1910 New York City
Technical Assistant, Electrical Testing Laboratories

Frank Oliver Dufour F 1908* Urbana, Ill.
Assistant Professor of Engineering, University of Illinois

William Watson Earnest G 1909 Champaign, Ill.
Superintendent of Schools

Edward Murray East G 1904* Cambridge, Mass.
Assistant Professor of Plant Breeding, Harvard University

Willard Clark Eells U 1911 Urbana, Ill.
Research Fellow, Engineering Experiment Station

Willard Leo Egy G 1909 Pittsburgh, Pa.
Assistant Physicist, United States Bureau of Mines

Torris Eide U 1904 New York City
Assistant Engineer, New York Terminals, New York Central Railroad

Walter Elmer Ekblaw U 1910 Urbana, Ill.
Assistant in Geology, University of Illinois

Ralph Waldo Elden U 1905 Elburn, Ill.
Elburn Coal and Lumber Company

Arthur Jackson Ellis U 1908 Washington, D. C.
Junior Geologist, United States Geological Survey

Evar Emanuel Elm U 1911 Gary, Ind.
Chemist, Coke Plant, Indiana Steel Company

Arnold Emch F 1911*† (Colorado CF 1905; Kansas F 1895)
Assistant Professor of Mathematics, University of Illinois [Urbana, Ill.

Arthur Donaldson Emmett G 1905* Urbana, Ill.
Assistant Chief in Animal Nutrition, University of Illinois

Arthur Ludvig Enger U 1911 Brooklyn, N. Y.
Instructor in Civil Engineering, Brooklyn Polytechnic Institute

Melvin Lorenius Enger U 1906 Urbana, Ill.
Assistant Professor of Engineering, University of Illinois

Roy Victor Engstrom U 1904 Seattle, Wash.
In Business

Thomas Reuben Ernest G 1910 Champaign, Ill.

William Alonzo Etherton U 1904 Stillwater, Okla.
Architect

John Marcus Evvard U 1907 (Missouri F 1908) Ames, Ia.
Experimentalist in Animal Husbandry, Iowa State College

Daniel Cleveland Faber U 1908 Madison, Wis.
Instructor in Engineering, University of Wisconsin

Stanley Prince Farwell U 1907 Urbana, Ill.
Instructor in Mechanics, University of Illinois

Forest Addison Fisher U 1911 Urbana, Ill.
Assistant in Soil Physics, University of Illinois

Francis Seeley Foote, Jr F 1910 (Columbia G 1908) Urbana, Ill.
Associate in Railway Engineering, University of Illinois

Stephen Alfred Forbes CF 1903*† Urbana, Ill.
Director, State Laboratory of Natural History, University of Illinois

Carlotta Marks Ford U 1911 Manhattan, Kan.
Assistant, State Agricultural College

Chester Charles Fowler U 1909 Ames, Ia.
Assistant Professor of Chemistry, Iowa State College

Harry Bert Fox G 1905 Monmouth, Ill.
Superintendent of Brick and Tile Works

Wilbur John Fraser CF 1903† Urbana, Ill.
Professor of Dairy Husbandry, University of Illinois

Walter Lee Gaines U 1908 Urbana, Ill.
Associate in Dairy Husbandry, University of Illinois

Bradley Charles Gardner U 1906 Chicago, Ill.
Assistant Chemist, State Food Laboratory

Claud Mallory Garland F 1906 Collingswood, N. J.
Engineer, Camden Iron Works

Frank Caleb Gates U 1910 Ann Arbor, Mich.
Assistant in Botany, University of Michigan

Charles Bayard Gibbons U 1907 Seattle, Wash.

John Philo Gilbert U 1905 Carbondale, Ill.
Professor of Biology, Southern Illinois Normal School

Frederick William Gill U 1906* New York City
Research Chemist, General Electric Company

James Herbert Gill F 1906 (Minnesota G 1896) Columbus, Ohio
Director, Columbus Trade School

Hugh Glasgow U 1908 Urbana, Ill.
Assistant in Entomology, University of Illinois

Robert Douglas Glasgow U 1908 Urbana, Ill.
Fellow in Entomology, University of Illinois

Paul Bond Glassco U 1904 Mount Clare, Col.

Henry Allen Gleason G 1904* (Michigan F 1910) Ann Arbor, Mich.
Assistant Professor of Botany, University of Michigan

Pressley Adams Glenn F 1911* (Kansas F 1908) Urbana, Ill.
General Assistant, State Entomologist's Office

Harry Frederick Godeke U 1905 Urbana, Ill.
Instructor in Mechanical Engineering, University of Illinois

Nellie Esther Goldthwaite F 1908* (Chicago G 1903) Urbana, Ill.
Associate in Household Science, University of Illinois

Harrison Frederick Gonnerman U 1908 Urbana, Ill.
Instructor in Theoretical and Applied Mechanics, University of Illinois

Arturo V Gonzalez U 1907 Monterey, Mexico
Architectural Engineer

George Alfred Goodenough CF 1903* Urbana, Ill.
Professor of Thermodynamics, University of Illinois

Ernest Elisha Gorsline F 1908 New York City
Chemist

William Freeman Myrick Goss F 1907*† Urbana, Ill.
Dean of College of Engineering, University of Illinois

Sylvester Henry Grauten U 1907 Culebra, C. Z.
Testing Engineer, Isthmian Canal Commission

Daniel Thomas Gray G 1905 Urbana, Ill.

Harry Davett Grigsby U 1906 Chicago, Ill.
Chemist, Testing Department, Rock Island Railroad

Harry Sands Grindley CF 1903*† Urbana, Ill.
Professor of Animal Chemistry, University of Illinois

Alfred Otto Gross U 1908 Cambridge, Mass.
Edward Austin Scholarship at Harvard

Antonio Guell G 1909 Baton Rouge, La.
Instructor in Engineering, Louisiana State University

Axel Ferdinand Gustafson U 1907 Urbana, Ill.
Associate in Soil Physics, University of Illinois

John Christopher Gustafson U 1905 Chicago, Ill.
Manager, Angert Wire and Iron Works

Frank Stanley Hadfield U 1904 Cincinnati, Ohio
Engineer, Globe Soap Company

John George Haeffner U 1911 Chicago, Ill.
Inspector, Universal Portland Cement Company

Arthur Graham Hall CF 1903* (Michigan F 1908) Ann Arbor,
Registrar and Professor of Mathematics, University of Michigan [Mich.

Louis Dixon Hall F 1909 Urbana, Ill.
Assistant Professor of Animal Husbandry, University of Illinois

Howard Spurr Hammond G 1909 (Ohio U 1908) Goshen, Conn.

James Thomas Hanley U 1910 Chicago, Ill.
Chicago Representative, Corrugated Bar Company

Ivan Guy Harmon U 1907 Denver, Col.

Charles Arthur Hart F 1907* Urbana, Ill.
Entomologist, State Laboratory of Natural History, University of Illinois

William Edward Hart U 1911 Winchester, Va.
Orchardist

Charles Nelson Haskins F 1906 Hanover, N. H.
Assistant Professor of Mathematics, Dartmouth College

Philip Bovier Hawk F 1907*† (Pennsylvania F 1903) Urbana, Ill.
Professor of Physiological Chemistry, University of Illinois

Cassius Clay Hayden F 1909 Urbana, Ill.
Assistant Professor of Dairy Husbandry, University of Illinois

Lee Herbert Hazard U 1908 Rock Island, Ill.

Howard Spencer Hazen U 1905 Boston, Mass.
Draftsman in Architect's Office

Arthur Noble Heaney U 1908 Enid, Okla.

Leonard Hegnauer U 1906 Urbana, Ill.
Professor of Crop Production, University of Illinois

Carl August Hellman U 1906 Washington, D. C.
Examiner, United States Patent Office

Donald Alison Henry U 1909 Pittsburgh, Pa.
With Westinghouse Electric and Manufacturing Company

Smith Tompkins Henry U 1904 Cleveland, Ohio
District Manager, Engineering Record

Nelson William Hepburn U 1907 Urbana, Ill.
Associate in Dairy Manufacturing, University of Illinois

Francis Craig Hersman U 1909 Hersman, Ill.
Farmer

Eugene Stewart Hight U 1910 Peoria, Ill.
Operating Engineer, Illinois Traction System

Jonas Ewing Hight G 1909 Nashville, Tenn.

Norman Haden Hill U 1909 Davenport, Ia.
Superintendent and Engineer, Temple and Burrows, Architects

Frank Wyman Hilliard U 1904 St. Louis, Mo.
Salesman, General Electric Company

Roy Wilson Hilts U 1904 Philadelphia, Pa.
Inspection Chemist, United States Appraiser's Stores

Paul Alexander Hoffman U 1909 Urbana, Ill.
Fellow in Animal Nutrition, University of Illinois

Vernon Leo Hollister U 1907 Lincoln, Neb.
Adjunct Professor of Electrical Engineering, University of Nebraska

Willis Boit Holmes F 1907* (Chicago CF 1903) Fremont, Ohio
Chemist Superintendent, Ames Laboratories

Alfred Wilhelm Homberger G 1910 Bloomington, Ill.
Professor of Chemistry, Illinois Wesleyan University

Cyril George Hopkins CF 1903*† (Cornell G 1894) Urbana, Ill.
Professor of Agronomy, University of Illinois

Herbert Andrew Hopper CF 1903 Ithaca, N. Y.
Farmer

John Wesley Hornbeak F 1911 (Cornell) Urbana, Ill.
Instructor in Physics, University of Illinois

Ezekiel Edward Hoskins U 1909 Norris City, Ill.

Charles Frederick Hottes CF 1903* Urbana, Ill.
Assistant Professor of Botany, University of Illinois

Paul Edward Howe U 1906 New York City
Assistant Professor of Biological Chemistry, Columbia University

Claude Silbert Hudson F 1906* Washington, D. C.
Chemist, Bureau of Chemistry, United States Department of Agriculture

Harold DeMott Hughes U 1907 (Missouri F 1908) Ames, Ia.
Professor of Crop Production, Iowa State College

Albert Nash Hume F 1911 Brookings, S. D.
Professor of Agronomy, State College of Agriculture

Adam Albert Hummel G 1908 Los Angeles, Cal.
Teacher of Science, State Normal School

Agnes Hunt U 1908 East Lansing, Mich.
Professor of Domestic Science, Michigan Agricultural College

Thomas Forsyth Hunt A 1909*† State College, Pa.
Dean of the School of Agriculture, Pennsylvania State College

Helen Isham F 1907* (Cornell U 1903) Urbana, Ill.
Associate in Chemistry, University of Illinois

Cora Anna Jacobs G 1909 Washington, D. C.
Assistant in Seed Testing, United States Department of Agriculture

Carl James U 1907 Windsor, Ont.
Assistant Engineer, Pennsylvania Tunnel under East River

Charles Austin James U 1909 Danville, Ill.
Superintendent, M. Yeager and Son, Contractors

Delas Lawrence James U 1909 Hershey, Pa.
Agriculturist, Hershey Chocolate Company

McNeal Cole James U 1909 Valley City, N. D.
Head of Department of Agriculture, State Normal School

George Emile Jaquet U 1908 Minneapolis, Minn.
Salesman, General Electric Company

Thomas McLean Jasper U 1911 Chicago, Ill.
Engineer, Alvord and Burdick

George Leonard Jensen U 1909 Chicago, Ill.
Architectural Engineer, Chicago Board of Education

William Chance Johnson U 1909 Salem, Ill.
Construction Engineer

Grinnell Jones F 1908* Cambridge, Mass.
Instructor in Physical Chemistry, Harvard University

Oliver Kamm U 1911 Urbana, Ill.
Assistant in Chemistry, University of Illinois

Truman Lee Kelley U 1909 Fresno, Cal.
Teacher of Mathematics, High School

George Theophilus Kemp CF 1903* Baltimore, Md.
Physician

Josephine Ellrod Kerr G 1909 Urbana, Ill.
Graduate Student, University of Illinois

Albert Franklin Kidder U 1906 Baton Rouge, La.
Professor of Agronomy, Louisiana State University

Paul Kircher U 1911 Urbana, Ill.
Student, University of Illinois

Terŭo Kishi G 1909

David Klein U 1906 (Wisconsin F 1908) Madison, Wis.
Instructor in Chemistry, University of Wisconsin

Willard Alfred Knapp U 1907 West Lafayette, Ind.
Instructor in Engineering, Purdue University

Lee Irving Knight F 1908* Chicago, Ill.
Assistant in Plant Physiology, University of Chicago

Charles Tobias Knipp CF 1903* (Cornell G 1899) Urbana, Ill.
Assistant Professor of Physics, University of Illinois

Carl Fred Knirk U 1908 Cleveland, Ohio
Head of Geography Department, West Technical High School

John McBride Knote F 1908 (Ohio State G 1906) Pittsburgh, Pa.
Pittsburgh Testing Laboratory

Alfred Richard Koch U 1907 Glen Ferris, W. Va.
Chemist, Electro Metallurgical Company

Lily Gavit Kollock F 1908* Berkeley, Cal.
(Mrs Louis John Paetow)

John Anton Kostalek G 1909 Moscow, Ida.
Instructor in Chemistry, University of Idaho

Alonzo Plumsted Kratz G 1909 Urbana, Ill.
Assistant, Engineering Experiment Station, University

Henry Kreisinger U 1904 Spartanburg, S. C.
Fuel Engineer, Churchfield Company

Fred William Kressman U 1909 Madison, Wis.
Chemist, Forest Products Laboratory

Lucas Petron Kyriakides F 1909 (Michigan G 1909) Cambridge, Mass.
Chemist

Burritt Samuel Lacy G 1908* Sewaren, N. J.
Assistant Manager, Perth Amboy Chemical Works

George Roger LaRue F 1909 (Nebraska G 1908; Michigan F 1911)
Instructor in Zoology, University of Michigan [Ann Arbor, Mich.

Robert Louis Latzer U 1908 Highland, Ill.
In Business

Carl Emil Lee F 1909 Madison, Wis.
Assistant Professor of Dairy Husbandry, University of Wisconsin

Oscar Adolph Leutwiler F 1906 Urbana, Ill.
Assistant Professor of Machine Design, University of Illinois

Burt A Lewis U 1906 Tacoma, Wash.
Architect, Dugan and Lewis

Azariah Thomas Lincoln CF 1903* Troy, N. Y.
Assistant Professor of Chemistry, Rensselaer Polytechnic Institute

Francis Church Lincoln F 1911* (Columbia G 1906) Champaign, Ill.
Associate in Mining Engineering, University of Illinois

Ralph Corson Llewellyn U 1906 Chicago, Ill.
Architectural Engineer, Joseph C Llewellyn

John William Lloyd F 1907 Urbana, Ill.
Professor of Olericulture, University of Illinois

Robert Clinton Lloyd G 1905 Canton, Ill.

Harry Stephen Lofquist U 1909 Cleveland, Ohio
Engineer, National Electric Lamp Association

Arthur Russell Lord G 1911 Chicago, Ill.
Consulting Structural Engineer, Leonard Construction Company

Robert James Love U 1908 Urbana, Ill.
Instructor in Architecture, University of Illinois

Edward Roy Ludwig U 1911 Champaign, Ill.
Graduate Student, University of Illinois

Ernest Barnes Lytle G 1904* Urbana, Ill.
Associate in Mathematics, University of Illinois

Alexander Dyer MacGillivray F 1911*† (Cornell G 1900) Champaign, Ill.
Assistant Professor of Systematic Entomology, University of Illinois

Hazel Hope MacGregor G 1909 (Kansas F 1910) Lawrence, Kan.
Instructor in Mathematics, University of Kansas

Duncan Arthur MacInnes G 1909 Urbana, Ill.
Instructor in Physical Chemistry

Ward J MacNeal F 1907 (Michigan CG 1903) New York City
Lecturer in Bacteriology, New York Post-Graduate Medical School

Irwin Arthur Madden U 1911 Normal, Ill.
Professor of Agriculture, Illinois State Normal University

Roscoe Conkling Main G 1907 Boston, Mass.
Student, Harvard Medical School

Charles Wesley Malcolm F 1908 Urbana, Ill.
Assistant Professor of Structural Engineering, University of Illinois

Frederick Maynard Mann F 1910 Urbana, Ill.
Professor of Architecture, University of Illinois

William Albert Manning F 1909 (Stanford G 1902) Palo Alto, Cal.
Assistant Professor of Mathematics, Leland Stanford Junior University

Warren Moore Mansfield U 1909 Abingdon, Ill.

Franklin Wales Marquis U 1905 Urbana, Ill.
Associate in Railway Engineering, University of Illinois

Roger Dearborn Marsden U 1908 Washington, D. C.
Engineer, Drainage Investigations, United States Department of Agriculture

William Christoph Marti U 1909 East Lansing, Mich.
Assistant Chemist, Michigan Agricultural College

Arselia Bessie Martin U 1909 Chicago, Ill.
Architectural Drafting

Mayne Seguine Mason U 1911 Urbana, Ill.
Fellow in Electrical Engineering, State Engineering Experiment Station

John Warne Mathewson U 1909 Elburn, Ill.

Henry Albright Mattill G 1909 Salt Lake City, Utah
Associate Professor of Physiological Chemistry, University of Utah

David Thorpe May U 1905 New York City

Ellen S McCarthy F 1909 (Cornell U 1907) Urbana, Ill.
Instructor in Chemistry, University of Illinois

Lawrence Justin McCarty U 1907 Sioux City, Ia.
Architectural Draftsman

John Hancock McClellan F 1908 Chicago, Ill.
Physician, Presbyterian Hospital

William Thompson McClenahan U 1909 Salem, Ill.
City Engineer

Marcus Sanders McCollister U 1910 Madison, Wis.

Elmer Massey McDonald U 1910 Urbana, Ill.
Instructor in Crop Production, University of Illinois

Lewis McDonald U 1908 Chicago, Ill.
Chief Draftsman, Chicago Bridge and Iron Works

David Ford McFarland F 1910 (Kansas U 1899; Yale F 1909)
Assistant Professor of Chemistry, University of Illinois [Urbana, Ill.

Donald McIntosh CF 1903*† Urbana, Ill.
Professor of Veterinary Science, University of Illinois

Eugene Campbell McMillan U 1909 Chicago, Ill.

Brainerd Mears F 1908* Williamstown, Mass.
Assistant Professor of Chemistry, Williams College

Edward John Mehren U 1906 New York City
Secretary and Manager, The Emerson Company

Earl Bowman Millard F 1911 (Colorado U 1910) Champaign, Ill.
Assistant in Chemistry, University of Illinois

Floyd Hays Millard G 1910 (Colorado U 1910) Urbana, Ill.

George Abram Miller F 1908* (Cornell F 1898; Stanford CF 1902)
Professor of Mathematics, University of Illinois [Urbana, Ill.

Wilford Stanton Miller F 1911 (Indiana F 1910) Champaign, Ill.
Instructor, School of Education, University of Illinois

Martin Lawrence Millspaugh U 1907 Sault Ste. Marie, Ont.
Assistant Superintendent of Construction, Algoma Steel Company, Ltd.

James Burt Miner CG 1903* (Columbia F 1903) Minneapolis,
Assistant Professor of Psychology, University of Minnesota [Minn.

Harold Hanson Mitchell U 1909 Urbana, Ill.
Assistant in Chemistry, University of Illinois

Nolan Dickson Mitchell U 1910 Chicago, Ill.
Architectural Engineer

Herbert Fisher Moore F 1908* (Cornell U 1899; Wisconsin A 1907)
Assistant Professor of Mechanics, University of Illinois [Urbana, Ill.

Joseph K Moore U 1908 Portland, Ore.
Assistant Manager, Western Clay Company and Columbia Clay Company

Llewellyn Alexander Moorehouse G 1906 Stillwater, Okla.
Professor of Agronomy, Agricultural College

Raymond Kurtz Morley F 1911 Champaign, Ill.
Instructor in Mathematics, University of Illinois

Charles Robert Moulton U 1907* (Missouri G 1907) Columbia, Mo.
Assistant Professor of Chemistry, University of Missouri Experiment Station

Clyde Leroy Mowder U 1907 Los Angeles, Cal.
Chief Engineer, Los Angeles Investment Company

Herbert Windsor Mumford CF 1903*† Urbana, Ill.
Professor of Animal Husbandry, University of Illinois

George Harold Myrick U 1910 Chicago, Ill.
General Electric Company

Charles Anson Nash U 1909 Schenectady, N. Y.

John Harland Nelson G 1909 (Case F 1910) Cleveland, Ohio
Professor of Mechanics, Case School of Applied Science

Lewis Irving Neikirk F 1903* (Pennsylvania G 1903) Seattle, Wash.
Instructor in Mathematics, University of Washington

Lloyd Francis Nickell U 1909 Urbana, Ill.
Assistant in Chemistry, University of Illinois

Ingo Charles Nitz U 1908 Chicago, Ill.

Clarence Eugene Noerenberg G 1909 Champaign, Ill.
Instructor in Theoretical and Applied Mechanics, University of Illinois

William Atkinson North U 1910 St. Louis, Mo.
Engineer, Laclede Gas Light Company

William Albert Noyes F 1907*† Urbana, Ill.
Director of Chemical Laboratory, University of Illinois

John Nydegger U 1907 Detroit, Mich.
Structural Engineer

Charles Hubert Oathout U 1907 Piper City, Ill.

Henry Dickson Oberdorfer U 1910 Urbana, Ill.
Superintendent of Construction, University of Illinois

Rufus Chauncey Obrecht F 1909 Topeka, Kan.
Expert Horse Judge

Frank Keehn Ovitz F 1905 (Michigan U 1905) Pittsburgh, Pa.
Assistant Chemist, U. S. Bureau of Mines

Ellery Burton Paine F 1908 Urbana, Ill.
Assistant Professor of Electrical Engineering, University of Illinois

Arthur William Palmer CF 1903
(Deceased 1904)

John Ira Parcell U 1909 Minneapolis, Minn.

Samuel Wilson Parr CF 1903*† Urbana, Ill.
Professor of Applied Chemistry, University of Illinois

Lura Elizabeth Parsons U 1909 Orion, Ill.
(Mrs Erwin B Jordan)

Austin McDowell Patterson F 1909* Columbus, Ohio
Editor, Chemical Abstracts, University of Ohio

Amos William Peters F 1905* Boston, Mass.
Harvard Medical College

James Harvey Pettit CF 1903 (Cornell U 1900) Urbana, Ill.
Professor of Soil Fertility, University of Illinois

Thomas Elmer Phipps U 1906 Seattle, Wash.
Locating Engineer, Southern Pacific Airline and Lower California Railway

Bethel Stewart Pickett G 1906 Durham, N. H.
Professor of Horticulture, New Hampshire College

Raymond Clark Pierce U 1908 Eugene, Ore.
Hydraulic Engineer, United States Forest Service

Charles Stephen Pillsbury U 1908 Chicago, Ill.
Engineer, Chicago Bridge and Iron Company

Willard Lacy Pollard U 1906 Washington, D. C.
United States Bureau of Patents

Ethel Claire Pond U 1910 Sycamore, Ill.
Science Teacher, High School

Amy Poorman U 1909 East Auburn, Cal.
Head of Household Science, Placer County High School

Jesse Roy Powell U 1904 Chicago, Ill.
Chief Chemist, Armour Glue and Soap Works

John Lossen Pricer F 1910 Normal, Ill.
Professor of Biology, Illinois State Normal University

Loring Harvey Provine F 1909 Seattle, Wash.

William James Putnam U 1910 Decatur, Ill.
Electrical Foreman, Illinois Traction System

Charles Ernest Ramser U 1909 Chilhowee, Tenn.
Engineer, Knoxville Power Company

Frank Alfred Randall U 1905 Chicago, Ill.
Chief Engineer, Morey, Newgard and Company

Jerome Edward Readhimer U 1904 Urbana, Ill.
Superintendent of Soil Experiment Fields, University of Illinois

Harry Wilfred Reddick G 1906* New York City
Instructor in Mathematics, Columbia University

Frank Walker Reed G 1908* Urbana, Ill.
Instructor in Astronomy, University of Illinois

Augustus Joseph Reef U 1904 Denver, Col.
With Victor Fuel Company

Miriam Ursula (Welles) Reeves U 1904 Salt Lake City, Utah
(Mrs G J Reeves) Collaborator, United States Bureau of Entomology

Edwin Theodore Renner U 1905 Chicago, Ill.
Engineer, South Halsted Street Iron Works

Ernest Shaw Reynolds F 1908 Agricultural College, N. D.
Associate Professor of Botany, North Dakota Agricultural College

John Lyon Rich F 1911 (Cornell U 1906) Urbana, Ill.
Instructor in Geology, University of Illinois

Charles Russ Richards F 1911*† (Nebraska CF 1897) Urbana, Ill.
Professor of Mechanical Engineering, University of Illinois

Burt Ransom Rickards F 1911 Urbana, Ill.
Associate Professor of Municipal and Sanitary Dairying, University of Illinois

Ethel Ricker U 1904 Urbana, Ill.

Nathan Clifford Ricker CF 1903*† Urbana, Ill.
Professor of Architecture, University of Illinois

Henry Lewis Rietz CF 1903* (Cornell G 1902) Urbana, Ill.
Assistant Professor of Mathematics, University of Illinois

Charles Trescott Ripley U 1909 Oak Park, Ill.

Ruric Creegan Roark G 1908 Washington, D. C.
Chemist, Bureau of Chemistry, United States Department of Agriculture

Shelby Sandfley Roberts F 1908 Louisville, Ky.
Division Engineer of Construction, Illinois Central Railroad

Charles Jason Robinson U 1909 Rockford, Ill.

Kendall Edward Robinson U 1910 Manila, P. I.
Surveyor, United States Bureau of Lands

Ward Reid Robinson U 1906 Chicago, Ill.
City Building Department

Charles Wesley Rolfe CF 1903*† Urbana, Ill.
Professor of Geology, University of Illinois

Susan Farley Rolfe G 1909 Evanston, Ill.
(Mrs Horace Graham Butler)

Frank Louis Roman U 1911 Springfield, Ill.
Chemist, State Highway Laboratory

Henry Perly Rusk F 1910 (Missouri U 1908) Urbana, Ill.
Associate in Beef Cattle, University of Illinois Experiment Station

George Silas Russell U 1909 Kansas City, Mo.
Field Engineer for Sewers

Thomas Arthur Rutherford G 1907 (Pennsylvania G 1907)
Physician, Hillside Home [Clark Summit, Pa.

George Rutledge U 1910 Urbana, Ill.
Assistant in Mathematics, University of Illinois

George Webster Saathoff U 1906 Joplin, Mo.
Assisitant General Superintendent, Empire District Electric Company

Edwin William Sanford U 1906 Scranton, Pa.
Assistant Engineer, Delaware, Lackawanna and Western Railway

Thomas Edmund Savage F 1907* Urbana, Ill.
Assistant Professor of Geology, University of Illinois

George Pillsbury Sawyer U 1911 Chicago, Ill.
With General Electric Company

Alvin Louis Schaller U 1907 Wellsville, N. Y.
Chief Draftsman, McEwen Brothers

Edward John Schell U 1911 Kansas City, Mo.
Civil Engineer, Waddell and Harrington

Edward Charles Schmidt F 1907* Urbana, Ill.
Professor of Railway Engineering, University of Illinois

Herman Albert Scholz U 1907 Burlington, Ia.

William Frederick Schulz F 1908* Urbana, Ill.
Assistant Professor of Physics, University of Illinois

Ramon Schumacher U 1909 Kansas City, Mo.
With Howe and Hoit

Samuel Walker Shattuck CF 1903*† Urbana, Ill.
Comptroller and Professor of Mathematics, University of Illinois

Eugene Wesley Shaw F 1910* Urbana, Ill.
Assistant Geologist in Co-operative Survey

James Byrnie Shaw F 1911 Urbana, Ill.
Assistant Professor of Mathematics, University of Illinois

James William Shaw U 1908 New York City
Engineer, Allis-Chalmers Company

James Ricketts Shinn U 1904 Nampa, Ida.
Retired

John Earl Shoemaker U 1905 Pueblo, Col.
With Pueblo Rocky Ford Irrigation Company

Glenn Alfred Shook F 1911 (Purdue F 1911) Urbana, Ill.
Instructor in Physics, University of Illinois

Frank Kay Shrader U 1909 Chicago, Ill.
Statistician, N. W. Halsey and Company

Harold Hoyt Simmons U 1909 Chicago, Ill.
On Editorial Staff, Railway Age Gazette

Charles Herschel Sisam F 1906* (Cornell G 1904) Urbana, Ill.
Assistant Professor of Mathematics, University of Illinois

Willis Appleford Slater U 1906 Urbana, Ill.
First Assistant, Engineering Experiment Station, University of Illinois

Edwin Raymond Smith U 1905 (Wisconsin CF 1907) State College,
Assistant Professor of Mathematics, Pennsylvania State College [Pa.

Frank Smith CF 1903* Urbana, Ill.
Associate Professor of Zoology, University of Illinois

George McPhail Smith F 1906 Urbana, Ill.
Associate in Chemistry, University of Illinois

Kenneth Gardner Smith U 1905 Milwaukee, Wis.
Extension Representative, University of Wisconsin

Louie Henry Smith F 1907* Urbana, Ill.
Professor of Plant Breeding, University of Illinois

Paul Ardell Smith U 1911 DeKalb, Ill.
Draftsman, American Steel and Wire Company

John McBeath Snodgrass F 1908 Urbana, Ill.
Assistant Professor of Steam Engineering, University of Illinois

Bartholomew John Spence F 1907 Grand Forks, N. D.
Assistant Professor of Physics, University of North Dakota

John Clyde Spitler U 1907 Montrose, Ill
Farmer

Jacob Leander Stair U 1908 Chicago, Ill.
Salesman, National X-Ray Reflector Company

Howard Russell Stanford U 1908 Chatsworth, Ill.
Farmer

Joel Stebbins CF 1903* (Nebraska G 1899) Urbana, Ill.
Assistant Professor of Astronomy, University of Illinois

Milton Frederick Stein U 1909 Chicago, Ill.

Herbert Coles Stephens U 1908 Sycamore, Ill.

Edward Beattie Stephenson U 1909 Grand Forks, N. D.
Instructor in Physics, University of North Dakota

Harold Wilson Stewart U 1909 Urbana, Ill.
Assistant in Soil Survey, University of Illinois

Robert Stewart F 1908* Logan, Utah
Assistant Professor of Chemistry, Utah College

William Warren Stifler F 1909 New York City
Assistant in Physics, Columbia University

Harry Harkness Stoek F 1910 Urbana, Ill.
Professor of Mining Engineering, University of Illinois

Ellis Bagley Stouffer G 1910 Urbana, Ill.
Instructor in Mathematics, University of Illinois

Frank Lewis Stout U 1911 Glenarm, Ill.

Earl Kenneth Strachan F 1911 Urbana, Ill.
Assistant in Chemistry, University of Illinois

Halver Rufus Straight U 1907 Adel, Ia.
Superintendent, Dallas County Brick and Tile Works

Samuel Wesley Stratton A 1909*† Washington, D. C.
Director, National Bureau of Standards

George Mauritz Strombeck U 1907 East Moline, Ill.
With Root and Vandervoort Engineering Company

Walter Gottfried Stromquist U 1910 Urbana, Ill.
Assistant Engineer, State Water Survey

Ray Thomas Stull F 1908 Urbana, Ill.
Associate in Ceramics, University of Illinois

Arthur Howard Sutherland F 1910 (Chicago G 1908) Urbana, Ill.
Associate in Psychology, University of Illinois

Percy Weston Swern U 1911 Chicago, Ill.
In Office of State Architect Zimmerman

Charles Lee Swisher U 1909 Grinnell, Ia.
Instructor in Physics, Grinnell College

Arthur Newell Talbot CF 1903*† Urbana, Ill.
Professor of Municipal and Sanitary Engineering, University of Illinois

Kenneth Hammett Talbot U 1909 Oak Park, Ill.
Assistant Engineer, Universal Portland Cement Company

John Orlo Taylor U 1904 Chicago, Ill.
Engineer, F. S. Postel and Company

Thomas Smith Taylor F 1909 (Yale G 1909) Urbana, Ill.
Instructor in Physics, University of Illinois

John Charles Thorpe F 1907 Urbana, Ill.
Illinois Motor Car Sales Company

Edgar Jerome Townsend CF 1903* Urbana, Ill.
Dean of the College of Science, University of Illinois

Henry George Treichel U 1907 Chicago, Ill.
With Arnold Company

Perry Fox Trowbridge G 1905* (Missouri F 1907) Columbia, Mo.
Professor of Agricultural Chemistry, University of Missouri

Jon Andreas Udden G 1906 (Iowa G 1905) Birmingham, Ala.
Assistant Geologist, Tennessee Coal and Iron Company

George Athol Van Brunt G 1909 Morton Park, Ill.
Engineer of Methods, Western Electric Company

Harley Jones Van Cleave G 1910 Urbana, Ill.
Assistant in Zoology, University of Illinois

Jameson VanDervort U 1911 Chicago, Ill.
With Coats and Burchard Company

Frank Van Inwagen U 1908 Hinsdale, Ill.
Secretary, Illinois Engineering Company

Bernard Carlyle van Pappelendam U 1910 Harvey, Ill.
Draftsman, Ingalls Shepard Forging Company

Arthur Gibson Vestal U 1911 Boulder, Col.
Instructor in Biology, University of Colorado

Claude L Wagner U 1910 Cape Girardeau, Mo.
Chemist, Cape Girardeau Portland Cement Company

Gustaf Eric Wahlin F 1908 Urbana, Ill.
Instructor in Mathematics, University of Illinois

Francis William Walker, Jr G 1911 Beaver Falls, Pa.
Engineer and Assistant Superintendent, Beaver Falls Art Tile Company

Jesse Jacobson Walledom U 1909 Chicago, Ill.
Engineer, American Bridge Company

James Henri Walton, Jr CF 1903* (Wisconsin F 1907) Madison, Wis.
Associate Professor of Chemistry, University of Wisconsin

Henry Baldwin Ward F 1909*† (Nebraska CF 1897) Urbana, Ill.
Professor of Zoology, University of Illinois

Edward Wight Washburn F 1908* Urbana, Ill.
Assistant Professor of Chemistry, University of Illinois

Leslie Abram Waterbury G 1905 Tucson, Ariz.
Professor of Civil Engineering, University of Arizona

Floyd Rowe Watson CF 1903* (Cornell G 1901) Urbana, Ill.
Assistant Professor of Physics, University of Illinois

Drury Lee Weatherhead U 1908 Bozeman, Mont.
Instructor in Chemistry, Montana College of Agriculture

Samuel Harvey Webster U 1906 Kingston, R. I.
Professor of Civil Engineering, Rhode Island State College

Paul Smith Welch G 1911 Urbana, Ill.
Fellow in Zoology, University of Illinois

Miriam Ursula Welles G 1904 Salt Lake City, Utah
(Mrs G J Reeves) Collaborator, United States Bureau of Entomology

Newton Alonzo Wells F 1909 Urbana, Ill.
Professor of Architectural Decoration, University of Illinois

Edgar I Wenger F 1909 Regina, Sask.
Consulting Engineer

Carl Joseph West F 1909 (Ohio State U 1908) Columbus, Ohio
Assistant Professor of Mathematics, Ohio State University

Arthur Wayne Wheeler U 1911 Gary, Ind.
Draftsman, American Bridge Company

Edmund Burke Wheeler U 1905 New York City
Telephone Engineer, Western Electric Company

Wilfred Forest Wheeler F 1908 (Kansas U 1908)
(Deceased 1909)

Earl Archibald White U 1908 Madison, Wis.
Graduate Student, University of Wisconsin

James McLaren White CF 1903 Urbana, Ill.
Professor of Architectural Engineering, University of Illinois

Herbert Lucius Whittemore F 1910 Watertown, Mass.
Government Testing Laboratory

Burton B Wilcox U 1904 Chicago, Ill.
Chemist, State Food Commission Laboratory

Carroll Carson Wiley U 1904 Urbana, Ill.
Instructor in Civil Engineering, University of Illinois

Charles Julius Willard U 1910 Bradford, Kan.
Farmer

Clement Clarence Williams U 1907 (Colorado F 1908) Boulder, Col.
Assistant Professor of Civil Engineering, University of Colorado

Djalma Downey Williams U 1907 Wichita, Kan.
Assistant Engineer, Missouri, Kansas and Texas Railway

Elmer Howard Williams F 1909 Urbana, Ill.
Associate in Physics, University of Illinois

Ernest Julius Wilszynski F 1907 (California F 1902) Chicago, Ill.
Professor of Mathematics, University of Chicago

Margaret Boynton Windsor A 1909 (Cornell U 1895) Urbana, Ill.
(Mrs Phineas Lawrence Windsor)

James Renwick Withrow F 1906 (Ohio 1907) Columbus, Ohio
Associate Professor of Chemistry, Ohio State University

John Emerson Wolf U 1909 Whiting, Ind.
Supervisor of Manual Training

Henry Clay Wood U 1910 DeKalb, Ill.
Assistant Cashier, Commercial Trust and Savings Bank

Harry Ray Woodrow G 1911 New York City
Electrical Engineer, New York Edison Company

Thomas Judson Wright, Jr U 1909 Charlotte, N. C.
Assistant to Chief Engineer, Piedmont and Northern Lines

August Frank Daniel Wussow U 1909 Hospital, Ill.
Chemist, State Psychopathic Institute

Trygve D Yensen U 1907 Urbana, Ill.
Assistant, Engineering Experiment Station, University of Illinois

John Wesley Young F 1908*† (Cornell G 1901) Hanover, N. H.
Professor of Mathematics, Dartmouth College

Charles Zeleny F 1909* (Minnesota U 1898; Indiana F 1909)
Associate Professor of Zoology, University of Illinois [Urbana, Ill.

James Zetek U 1911 Ancon, C. Z.
Entomologist, Isthmian Canal Commission

William Douwes Zoethout F 1908* Chicago, Ill.

CASE CHAPTER

Case School of Applied Science, Cleveland, Ohio

Charter Dated October 1, 1904 Chapter Installed November 21, 1904

HISTORICAL SKETCH

In the spring of 1904, through the efforts of Charles S. Howe, President of Case School of Applied Science, application was made for the establishment of a chapter of the Society of the Sigma Xi at Case School. The charter was granted under the date of October 1, 1904, for the "Case Chapter," no chapter letter being assigned. The Chapter was installed by a formal meeting for organization, held on November 21, 1904, there being sixteen members, all from the faculty of Case School of Applied Science.

Elections to active membership were made from the faculty, and from the senior class only at the end of the senior year. In the six years, from 1904 to 1910, sixty-three seniors have been elected, being thirteen per cent of the eligible seniors. From the alumni there have been elected forty-two; and faculty elections and transfers from other Chapters make the total Chapter enrollment one hundred and forty. In January, 1911, there were twenty-two active faculty members.

In the six and one-half years of Chapter life, there have been held thirty-six meetings, at sixteen of which there were scientific papers and discussions. The annual addresses, given at Commencement time, have been by Edward C. Orton, State Geologist of Ohio; President C. R. Van Hise of the University of Wisconsin; Doctor H. W. Wiley, Chief Chemist of the United States Department of Agriculture; Doctor L. O. Howard, Chief of the United State Bureau of Entomology; Doctor Dayton C. Miller of our Department of Physics; and Professor A. A. Michelson of the University of Chicago.

D. C. M.

OFFICERS FOR 1911–12

President.....Dayton Clarence Miller
Vice-President.....Theodore Moses Focke
Recording Secretary.....Norman Armin Dubois
Corresponding Secretary.....John Harland Nelson
Treasurer.....Clarence Leroy Eddy
Councilor.....Charles Sumner Howe

MEMBERSHIP ROLL

Robert Rowell Abbott F 1907 Cleveland, Ohio
Metallurgical Engineer, The Peerless Motor Car Company

Comfort Avery Adams F 1905*† Cambridge, Mass.
Professor of Electrical Engineering, Harvard University

Harry Fleishman Affelder A 1909 Allegheny, Pa.
Sales Department, Allis-Chalmers Company

Harry Lee Allen A 1907 Cleveland, Ohio
Mechanical Engineer, The Bruce-Macbeth Engine Company

William Ambler CF 1904 (Cornell U 1900) Cleveland, Ohio
The Ambler Realty Company

Samuel Sweigart Baker U 1905 Pittsburgh, Pa.
Efficiency Engineer, Jones and Laughlin Steel Company

Elmer Bark U 1906 Philadelphia, Pa.
Instructor in Mechanical Engineering, University of Pennsylvania

Frederick Arthur Barnes U 1908 Cleveland, Ohio
Consulting Engineer, The George S. Rider Company

Arthur Barrett U 1908 McDonald, Pa.
Engineer, B. D. Tillinghast Company

Edwin Ormond Barstow A 1908 Midland, Mich.
Technical Chemist, The Dow Chemical Company

Burke Morgan Baxter U 1906 (Pennsylvania F 1906) Cleveland,
Mechanical Engineer with H. B. Prather, Consulting Engineer [Ohio

Cliff Roland Bell U 1911 Ridgway, Pa.
Draftsman, Ridgway Dynamo and Engine Company

Harrison Merwin Benham U 1911 Newark, N. J.
New York Telephone Company

Charles Henry Benjamin CF 1904*† LaFayette, Ind.
Dean, Schools of Engineering, Purdue University

William Sanford Bidle A 1905 Cleveland, Ohio
Manager, Turnbuckle Department, Cleveland City Forge and Iron Company

Emmet Hamilton Birney A 1905 Pittburgh, Pa.
Superintendent, Rolling Mills, Jones and Laughlin Steel Company

Edward C Bixel U 1910 Newark, N. J.
The New York Telephone Company

Homer Samuel Black A 1909 Cleveland, Ohio
Superintendent, Tungsten Electric Lamp Company

Arthur Frederick Blaser U 1905 Cleveland, Ohio
Civil Engineer, Wilbur J. Watson, Consulting Engineer

William Edward Blaser U 1909 Cleveland, Ohio
Draftsman, Lake Shore and Michigan Southern Bridge Department

Carl Edwin Bliss U 1909 Cleveland, Ohio
Inspector of Materials, Union Pacific Railway

Thomas Earl Bloxham U 1909 Rochester, N. Y.
Engineering Department, New York Telephone Company

John Charles Boertlein U 1907 Cleveland, Ohio
Draftsman, Variety Iron and Steel Works Company

August Jacob Bohrer U 1909 Cleveland, Ohio
Draftsman, Variety Iron and Steel Works Company

Chester Kingsley Brooks U 1908 (Yale U 1906) Cleveland, Ohio
Engineer, The National Malleable Castings Company

Charles Arthur Cadwell CF 1904 Cleveland, Ohio
Assistant Professor of Mining Engineering, Case School of Applied Science

Paul Whittier Carleton F 1909 Madison, Wis.
Instructor in Chemistry, University of Wisconsin

Allan Wadsworth Carpenter A 1908 New York City
Engineer of Structures, New York Central Railway

Sellers McKee Chandler A 1907 Pittsburgh, Pa.
President, The Chandler-Boyd Supply Company

Charles Henry Christian U 1908 Cleveland, Ohio
Chief Draftsman, The Cleveland Engineering Company

Frank Neville Claflin U 1906 Ragland, Ala.
Construction Engineer, Atlantic and Gulf Portland Cement Company

John Hugh Clemmer U 1911 New York City
Salesman, Ludowice-Celadon Company, New York

Maurice Coburn A 1909 St. Louis, Mo.
Principal Assistant Engineer, Vandalia Railroad

Frank Mason Comstock CF 1904*† Cleveland, Ohio
Professor of Descriptive Geometry, Case School of Applied Science

Samuel Richard Cook CF 1904* (Nebraska G 1898) San Jose, Cal.

Charles William Coppersmith U 1905 Cleveland, Ohio
Instructor in Engineering, Case School of Applied Science

Edward Ostrom Cross A 1905 Fostoria, Ohio
Superintendent, Fostoria Glass Specialty Company

David Thomas Croxton A 1906 Cleveland, Ohio
President, Cleveland Furnace Company

Henry Baldwin Dates F 1905 (Colorado CF 1905) Cleveland, Ohio
Professor of Electrical Engineering, Case School of Applied Science

Dwight Combs DeWeese U 1911 New Castle, Pa.
Assistant Engineer, Pennsylvania Railroad Company

Herbert Henry Dow A 1905 Midland, Mich.
General Manager, The Dow Chemical Company

Robert Warren Drake U 1908 Chicago, Ill.
Electrical Engineer, International Harvester Company

Norman Armin Dubois F 1907* Cleveland, Ohio
Dean, Professor of Chemistry, Western Reserve University

Richard Gustavus Dukes CF 1904 (Cornell U 1896) Lafayette, Ind.
Professor of Mechanics, Purdue University

Clarence Leroy Eddy F 1909 Cleveland, Ohio
Assistant Professor of Engineering, Case School of Applied Science

Alvin Bart Einig U 1907 West Allis, Wis.
Engineering Apprentice, Allis-Chalmers Company

Harvey William Fay U 1909 Cleveland, Ohio
National Electric Lamp Association

Fred William Feihl U 1909 Cleveland, Ohio
Engineer, National Carbon Company

Robert Heywood Fernald F 1908† Cleveland, Ohio
Professor of Mechanical Engineering, Case School of Applied Science

Albert Finck CF 1904 Cleveland, Ohio
Chemist

Theodore Moses Focke CF 1904* Cleveland, Ohio
Professor of Mathematics, Case School of Applied Science

Orrin Fred French A 1906
(Deceased)

Adolph Jacob Friedman U 1909 Cleveland, Ohio
Osborn Engineering Company

Victor Charles Fugman U 1910 Land Coulee, Mont.
Engineer, Nelson Jenks Coal Company

Charles Herman Fulton F 1911* (Columbia A 1905) Cleveland, Ohio
Professor of Metallurgy, Case School of Applied Science

Oscar Louis Gaede U 1908 Cleveland, Ohio
Concrete and Steel Designer

John Adams Gann U 1911 Boston, Mass.
Assistant, Analytical Chemistry, Massachusetts Institute of Technology

Charles Goffing A 1909 Cleveland, Ohio
Mechanical Engineer, City Water Department

Fred Milo Graham A 1909 Ft. Wayne, Ind.
Division Engineer, Pennsylvania Lines West of Pittsburgh

Thomas Griswold, Jr A 1905 Midland, Mich.
Bartsow and Griswold, Chemists and Engineers

William George Haldane A 1907 Golden, Col.
Associate Professor of Metallurgy and Assaying, Colorado School of Mines

George Herbert Hall A 1909 Cleveland, Ohio
Secretary, Cleveland Rock Drill Company

Earl Clarence Harsh U 1905 Milwaukee, Wis.
Sales Department, Allis-Chalmers Company

Charles Burridge Hawley U 1908 Ishpeming, Mich.
Assistant Master Mechanic, Cleveland Cliffs Iron Company

Fred Harvey Heath F 1910 (Yale G 1909) Middletown, Conn.
Instructor in Chemistry, Wesleyan University

John Gordon Henninger U 1909 Cleveland, Ohio
National Electric Lamp Association

Frederick Martin Hibben U 1907 Cleveland, Ohio
Superintendent, The Cleveland Illuminating Company

Hugh Gerald Hilton U 1910 South Chicago, Ill.
Federal Furnace Company

Paul Milton Hinsdale U 1908 Newark, N. J.
Engineer, New York Telephone Company

Richard James Hoddinott U 1911 Berea, Ohio
Assistant Professor of Chemistry and Physics, Baldwin University

Charles David Hodgman F 1909 Cleveland, Ohio
Instructor in Physics, Case School of Applied Science

Robert Hoffman A 1908 Cleveland, Ohio
Chief Engineer, Department of Public Service

Charles Sumner Howe CF 1904*† Cleveland, Ohio
President, Case School of Applied Science

Harry Sloan Hower A 1903* Pittsburgh, Pa.
Associate Professor of Physics, Carnegie Technical Schools

Russell Huff A 1907 Detroit, Mich.
Chief Engineer, Packard Motor Car Company

Frank Erastus Hulett A 1908 Cleveland, Ohio
Engineer, Wellman-Seaver-Morgan Company

Howard Lyman Ingersoll A 1911 New York City
Assistant to General Manager, New York Central and Hudson River Railroad

Orlando W Irwin U 1906 Detroit, Mich.
Designing Engineer, Trussed Concrete Steel Company

William Henry Kaiser U 1911 St. Louis, Mo.
Instructor, Mechanical Engineering, Washington University

Harry John Kappler U 1909 Cleveland, Ohio
Mechanical Rubber Comany

Sidney W Katzenstein U 1908 Gladstone, Mich.
Chemist, Cleveland Cliffs Iron Company

Harry Livingston Keetch U 1911 East Pittsburgh, Pa.
Graduate Student Course, Westinghouse Electric Company

Edwin Crawford Kemble U 1911 Pittsburgh, Pa.
Assistant Instructor in Physics, School of Applied Science

Thomas Seth Kemble A 1909 Cleveland, Ohio
Experimental Department, Peerless Motor Car Company

Robert Kernohan A 1905 Pittsburgh, Pa.
Assistant General Manager, Jones and Laughlin Steel Company

Fred Henry Kindl A 1905 Pittsburgh, Pa.
Consulting Engineer

Zenas Clyde Kline U 1910 Fostoria, Ohio
Cost Accountant, Fostoria Glass Specialty Company

Arthur Martin Klingman U 1909 Cleveland. Ohio
Efficiency Engineer, Adams-Bagnall Electric Company

Elmer Louvestus Knoedler U 1905 Gloucester City, N. J.
Assistant to General Manager, Welsbach Company

Cyrus Bosworth Kurtz U 1906 Cleveland, Ohio
Engineer with C. E. F. Ahlm

John Williams Langley CF 1904*† Ann Arbor, Mich.
Emeritus Professor of Electro-Metallurgy, Case School of Applied Science

Ralph Bell Lynn U 1909 Lakewood, Ohio
The National Carbon Company

Charles Frederic Mabery CF 1904*† Cleveland, Ohio
Emeritus Professor of Chemistry, Case School of Applied Science

Louis Austin Magee U 1909 Tarentum, Pa.
Pittsburgh Plate Glass Company

James Caldwell McCullough U 1906 Oberlin, Ohio
Associate Professor of Chemistry, Oberlin College

Charles Rex McNiece U 1911 Mt. Vernon, Ohio
Engineer, Mt. Vernon Bridge Company

Kenneth Llewellyn Meredith U 1907 Akron, Ohio
President the B. and M. Machine Company

George Schambs Merrill A 1907 Cleveland, Ohio
Assistant to Chief Engineer, National Electric Lamp Association

Ezekiel Jones Miles U 1909 Detroit, Mich.
Consulting Engineer, Studebaker Corporation

Dayton Clarence Miller CF 1904*† Cleveland, Ohio
Professor of Physics, Case School of Applied Science

Harlan Dewey Miller A 1909 Albany, N. Y.
Senior Bridge Designer, State of New York

Frank Howard Neff CF 1904 Cleveland, Ohio
Professor of Civil Engineering, Case School of Applied Science

John Harland Nelson F 1910 (Illinois G 1909) Cleveland, Ohio
Assistant Professor of Mechanics, Case School of Applied Science

Charles Matthias Nissen A 1909 Chicago, Ill.
Patent Attorney

Paul Elfred Norris U 1907 Detroit, Mich.
District Manager, U. S. Light and Heating Company

Robert Edgar Noyes F 1907 (Nebraska G 1904) Brooklyn, N. Y.
Instructor in Applied Electricity, Pratt Institute

Ernest Linwood Ohle U 1904 (Iowa F 1906) St. Louis, Mo.
Professor of Mechanical Engineering, Washington University

John Emanuel Olivenbaum F 1910 Cleveland, Ohio
Instructor in Steam Engineering, Case School of Applied Science

Charles Thomas Olmsted U 1908 Cleveland, Ohio
Instructor in Civil Engineering, Case School of Applied Science

Otto Ernest Osthoff A 1905 Chicago, Ill.
Vice-President, H. M. Byllesby and Company

James Frank Palecek U 1906
(Deceased)

Edgar Long Payne U 1907 Brooklyn, N. Y.
District Engineer, The New York Telephone Company

Roscoe Gaylord Phelps U 1906 Conneaut, Ohio
Conneaut Mazda Lamp Works

Gurley Sloan Phelps A 1909 Sandusky, Ohio
Junior Engineer, U. S. Engineer's Office

Philip Boynton Prentice U 1910 Cleveland, Ohio

Milton Baxter Punnett A 1905 Rochester, N. Y.
Superintendent, Eastman Kodak Company

Ralph Leroy Quass U 1909 New York City
Electrical Engineer, Western Electric Company

William Osborne Quayle A 1905 Wilmington, Del.
Chemist, E. I. DuPont de Nemours Powder Company

Clarence Erle Reid F 1907 Agricultural College, Miss.
Professor of Electrical Engineering

Arthur Boardman Roberts U 1907 Cleveland, Ohio
Engineer, The American Fork and Hoe Company

Harte Langdon Rowe U 1908 Corry, Pa.
J. W. and A. P. Howard Company

Lewis Dow Rowell F 1911 Lafayette, Ind.
Associate Professor of Electrical Engineering, Purdue University

Alexander Russell U 1909 Niagara Falls, N. Y.
Publicity Manager, U. S. Light and Heating Company

Verne Warren Shear U 1906 Wilkinsburg, Pa.
Commercial Engineer

Frederick Hubbard Sibley F 1907 University, Ala.
Professor of Mechanical Engineering, University of Alabama

Otto Julius Sieplein A 1906 Grove City, Pa.
Professor of Chemistry, Grove City College

Warner Mason Skiff A 1911 Cleveland, Ohio
Assistant Manager, National Electric Lamp Association

Albert William Smith CF 1904*† Cleveland, Ohio
Professor of Metallurgy, Case School of Applied Science

Robert Earle Snyder F 1907 (Michigan G 1907) Cleveland, Ohio
Instructor in Physics, Case School of Applied Science

Arthur Coe Spencer A 1905*† Washington, D. C.
Geologist, U. S. Geological Survey

Robert Henry Spooner U 1910 Cleveland, Ohio
Experimental Department, The Peerless Motor Car Company

Harry William Springsteen A 1905* Cleveland, Ohio
Associate Professor of Physics, Western Reserve University

Everett Adams Squire U 1911 Eureka, Utah
Centennial Eureka Mining Company

Cady Staley F 1907† (Union F 1888) Cleveland, Ohio
Professor of Political Economy, Case School of Applied Science

Leslie Dalrymple Stair A 1906 Chicago, Ill.
Engineer, Federal Furnace Company

Frank Amos Steele U 1910 Akron, Ohio
Chemist, The Goodyear Tire and Rubber Company

Arthur Henry Steuer U 1910 Cleveland, Ohio
Engineering Corps, Pennsylvania Railroad

William Arthur Stocking U 1906 Cleveland, Ohio
With Hubbell and Benes, Architects

Charles John Strosacker U 1906 Midland, Mich.
Chemist, The Dow Chemical Company

William Jordan Sweetser F 1911 Cleveland, Ohio
Assistant Professor Mechanical Engineering, Case School of Applied Science

Louis Nelson Talkes U 1911 New York City
Assistant Manager, New York Branch U. S. Light and Heating Company

Paul Folsom Thayer U 1906 Youngstown, Ohio
Secretary and Treasurer, Youngstown Armature and Construction Company

Frank Edward Treat A 1911 Conneaut, Ohio
Superintendent, Conneaut Mazda Lamp Works

Frank Robertson Van Horn CF 1904* Cleveland, Ohio
Professor of Geology and Mineralogy, Case School of Applied Science

William Reed Veazey F 1907 Cleveland, Ohio
Assistant Professor of Chemistry, Case School of Applied Science

Lafayette Denton Vorce A 1911 Wyandotte, Mich.
General Superintendent, Wyandotte Southern Railroad Company

Fred Hale Vose F 1911 Cleveland, Ohio
Assistant Professor Mechanical Engineering, Case School of Applied Science

David Gray Waggoner U 1910 Denver, Col.
Denver Gas and Electric Light Company

Roy Clarence Wallis U 1910 Midland, Mich.
Research Chemist, Dow Chemical Company

Harry True Welty A 1909 New York City
Engineer, New York Central and Hudson River Railroad

Harry George Welfare U 1905 Cleveland, Ohio
Engineer, National Carbon Company

Edwin Bennett Wheeler F 1906 Pottsdam, N. Y.
Professor of Physics, Clarkson School of Technology

Eli White U 1905 Detroit, Mich.
Estimator, Trussed Concrete Steel Company

Arthur Victor Wilker U 1909 Cleveland, Ohio
Chemist, National Carbon Company

Edward Hall Williams A 1906 Hokendauqua, Pa.
Superintendent, Thomas Iron Company

Delonza Tate Wilson CF 1904* Cleveland, Ohio
Assistant Professor of Mathematics and Astronomy, Case School

Robert Arthur Worstall A 1905 Chicago, Ill.
Chemist, Paint and Varnish Specialist

Reginald Ashmun Wright A 1909 Pottsville, Pa.
Chief Draftsman, Philadelphia and Reading Coal and Iron Company

Albert William Zesiger A 1907 Cleveland, Ohio
Engineer, Wm. H. Evers Engineering Company

INDIANA CHAPTER

INDIANA UNIVERSITY, BLOOMINGTON, INDIANA

Charter Dated October 1, 1904 Chapter Installed, 1904

HISTORICAL SKETCH

During the fall of 1903, the Sigma Xi men of the faculty of Indiana University considered the advisability of petitioning the Council for a chapter at that institution and a petition was drawn up and presented to the Council at about the time of the St. Louis meeting of the American Association for the Advancement of Science. The charter was granted the first of October, 1904.

Since its organization the Society has had a healthy growth and has been of value in many ways to the scientific departments of the University. Its numbers have been increased gradually until now there are forty resident and thirty-four non-resident members.

Eight or nine scientific meetings are held each year. These meetings fall into three general groups: First, those in which the paper is a summary of recently completed research of the member; second, a discussion of the present status and recent advances in the knowledge of some limited field of science in which a member is working; third, general meetings, of which there are usually two, one devoted to the greater advancements of science during the year in the various departments and the other is turned over to the younger members, the candidates for advanced degrees giving ten or fifteen minute discussions of the researches upon which their theses are based. These general meetings are interesting and especially well attended.

A few members of the senior class who have already demonstrated their ability to do research work and the probability of their continuing it are elected early in the year in order that they may have as much advantage of the meetings as possible. These are usually men who complete the work for the bachelor's degree at the end of the fall or winter quarter, ending Christmas and the last week in March, respectively.

Regular membership application blanks similar to those in use by the Cornell Chapter have been adopted.

K. P. W.

PUBLICATIONS

The Society of the Sigma Xi Indiana Chapter. Officers and Program for 1906 (Including list of members) pp. 14.

The Society of the Sigma Xi Indiana Chapter, Officers and Program for 1907 (Including list of members) pp. 8.

The Society of the Sigma Xi Indiana Chapter. List of Officers and Members and Program for 1908.

OFFICERS FOR 1911-12

President.....Joshua William Beede
Vice-President.....Clarence Earl May
Recording Secretary.....Fernandus Payne
Corresponding Secretary.....Mary Theresa Harman
Treasurer.....Frank Curry Mathers
Councilor.....Carl H. Eigenmann

MEMBERSHIP ROLL

Henry Rihl Alburger F 1908* (Pennsylvania U 1902) Indianapolis
Professor of Pathology, Indiana University [Ind

Robert Judson Aley F 1905*† Orono, Me
President, University of Maine

Frank Marion Andrews F 1904* Bloomington, In
Associate Professor of Botany, Indiana University

Marie Opperman Andrews (Mrs. F. M.) G 1911 Bloomington, In
Graduate Student of Botany, Indiana University

George Frederick Arps F 1910* (Illinois F 1910) Urbana, Il
Assistant Professor of Psychology, University of Illinois

Arthur Mangum Banta G 1905* Cold Spring Harbor, L I., N. Y
Resident Investigator, Carnegie Experiment Station

Joshua William Beede CF 1904*† (Kansas G 1897) Bloomington, In
Associate Professor of Geology, Indiana University

John Andrew Bergstrom CF 1904*
(Deceased 1910)

Caroline Anna Black G 1909 Durham, N. H
Instructor in Botany, New Hampshire College

Willis Stanley Blatchley A 1905*† Indianapolis, In

Henry Clay Brandon G 1905* Portland, Or
Director of Industrial Education

Joseph Valentine Breitwieser U 1906 Colorado Springs, Col
Professor of Psychology, Colorado College

William Conrad Brooks G 1909 Evansville, In
Superintendent, Hoosier Storage Battery Company

Harry Bates Brown G 1907 Agricultural College, Mis
Professor of Botany, Mississippi Agricultural and Mechanical College

Oliver W Brown F 1906* (Cornell G 1898) Bloomington, In
Associate Professor of Chemistry, Indiana University

William Lowe Bryan CF 1904*† Bloomington, In
President, Indiana University

Morley Albert Caldwell C 1905 Louisville, K
Professor of Philosophy, University of Louisville

Robert Daniel Carmichael F 1911 Bloomington, In
Assistant Professor of Mathematics, Indiana University

Campbell Colon Carpenter U 1906 Niagara Falls, N. Y.
Chief Chemist, United States Light and Heating Company

Wilbur Adelman Cogshall F 1906* Bloomington, In
Associate Professor of Astronomy, Indiana University

Edgar Roscoe Cumings CF 1904*† (Union G 1897) Bloomington, Ind.
Professor of Geology, Indiana University

James Nimrod Currie G 1907 Storrs, Conn.
Dairyman, Storrs Agricultural College

Schuyler Colfax Davisson F 1905* Bloomington, Ind.
Professor of Mathematics, Indiana University

David Abbot Drew F 1910* Bloomington, Ind.
Instructor in Mechanics and Astronomy, Indiana University

John Charles Duncan U 1906* Cambridge, Mass.
Instructor in Astronomy, Harvard University

John Benjamin Dutcher F 1908 Bloomington, Ind.
Assistant Professor of Physics, Indiana University

Carl H Eigenmann CF 1904*† Bloomington, Ind.
Dean of Graduate School, Professor of Zoology, Indiana University

Rosa Smith Eigenmann U 1905 Bloomington, Ind.
(Mrs C H Eigenmann) Editor in Zoology, Indiana University

Max Mapes Ellis U 1906* Boulder, Col.
Instructor in Biology, University of Colorado

Marion (Durbin) Ellis G 1909 Boulder, Col.
(Mrs M M Ellis) Graduate Student, University of Colorado

Barton Warren Everman A 1905*† Washington, D. C.
Bureau of Fisheries

Lemuel William Flamulener F 1907* New York City
City Board of Health

Arthur Lee Foley CF 1904* (Cornell G 1897) Bloomington, Ind.
Professor of Physics, Indiana University

Eupha May Foley G 1911 Bloomington, Ind.
Teaching Fellow in Psychology, Indiana University

Albert Frederick Ottmar Germann G 1909 Geneva, Switzerland
Student, University of Geneva

Charles Grandy G 1909 Chicago, Ill.
Rush Medical School

Frank Cook Greene U 1907 Rolla, Mo.
Geological Survey

Melvin Everett Haggerty F 1910 Bloomington, Ind.
Assistant Professor of Psychology, Indiana University

Walter Louis Hahn G 1907*
(Deceased)

Ulysses Sherman Hanna F 1905* (Pennsylvania G 1900) Bloomington, Ind.
Associate Professor of Mathematics, Indiana University

Mary Theresa Harman G 1910 Bloomington, Ind.
Fellow in Zoology, Indiana University

Charles Haseman G 1906* Reno, Nev.
Professor of Mathematics, University of Nevada

John Diedrich Haseman G 1907 New York City
Fellow in Zoology, Columbia University

Joseph Henry Haseman G 1905 Linton, Ind.
Superintendent, Public Schools

Leonard Haseman G 1906 (Missouri F 1910) Columbia, Mo.
Instructor in Entomology, University of Missouri

William Peter Haseman F 1905 (Pennsylvania G 1907) Norman, Okla.
Professor of Physics, University of Oklahoma

Robert Hessler A 1905 Logansport, Ind.
Physician

Cassius Eugene Hiatt G 1906 (Pennsylvania G 1908) Bloomfield,
Westinghouse Electric Lamp Company [N. J.

Edgar Clayton Hinkle U 1905 Chicago, Ill.
Teacher of Mathematics, Chicago Teachers' College

John Alfred Hodge G 1910 Kansas City, Kan.
Assistant, Sumner High School

William Edward Howard F 1906 Guthrie, Okla.
Professor of Mathematics, Methodist University of Oklahoma

Mason Edward Hufford G 1911 Bloomington, Ind.
Teaching Fellow in Physics, Indiana University

Roscoe Raymond Hyde G 1908* Terre Haute, Ind.
Assistant Professor of Zoology, State Normal School

Dennis Emerson Jackson G 1903* St. Louis, Mo.
Associate in Pharmacology, Washington University Medical School

Edward William Koch G 1909 Chicago, Ill.
Rush Medical School

Ira Elver Lee G 1911 Bloomington, Ind.
Teaching Fellow in Chemistry, Indiana University

Isaac McKinney Lewis G 1906 Austin, Tex.
Instructor in Botany, University of Texas

Robert Edward Lyons CF 1904* Bloomington, Ind.
Professor of Chemistry, Indiana University

Ernest Hiram Lindley CF 1904*† Bloomington, Ind.
Professor of Philosophy and Psychology, Indiana University

Leslie MacDill G 1911 Bloomington, Ind.
Teaching Fellow in Mathematics, Indiana University

Wilfred Hamilton Manwaring F 1905 New York City
Rockefeller Institute

Walter Ross Marriott U 1906 (Pennsylvania G 1908) Swarthmore,
Assistant Professor of Mathematics, Swarthmore College [Pa.

Thomas Edward Mason G 1911 Bloomington, Ind.
Teaching Fellow in Mathematics, Indiana University

Frank Curry Mathers U 1905* Bloomington, Ind.
Assistant Professor of Chemistry, Indiana University

Clarence Earl May G 1905* Bloomington, Ind.
Assistant Professor of Chemistry, Indiana University

Norman Eugene McIndoo G 1908 Washington, D. C.
Assistant, Bureau of Entomology

Seth Eugene Meek A 1905* Chicago, Ill.
Assistant Curator of Zoology, Field Columbian Museum

Egbert J Miles U 1906* (Chicago G 1906) Ithaca, N. Y.
Instructor in Mathematics, Cornell University

John Anthony Miller CF 1904*† Swarthmore, Pa.
Professor of Astronomy, Swarthmore College

Newton Miller G 1906* Worcester, Mass.
Assistant Professor of Biology, Clark College

Wilford Stanton Miller F 1910 Urbana, Ill.
Assistant in Psychology, University of Illinois

William J Moenkhaus CF 1904* Bloomington, Ind.
Professor of Physiology, Indiana University

David Myers Mottier CF1904* Bloomington, Ind.
Professor of Botany, Indiana University

Effa (Funk) Muhse G 1908 Washington, D. C.
(Mrs Albert Clark Muhse)

Burton Dorr Myers CF 1904* (Cornell F 1900) Bloomington, Ind.
Professor of Anatomy, Indiana University

Alpheus Russel Ness G 1911 Bloomington, Ind.
Teaching Fellow in Chemistry, Indiana University

Hiromitsu Oi G 1906 Yokohama, Japan
Superintendent of Docks

Fernandus Payne G 1905 Bloomington, Ind.
Assistant Professor of Zoölogy, Indiana University

Alexander Petrunkevitch F 1906* New Haven, Conn.
Assistant Professor of Zoölogy, Yale University

Augustus Grote Pohlman F 1905* Bloomington, Ind.
Professor of Anatomy, Indiana University

Claude Elmer Price G 1905 Toledo, Ohio
Physician

Rolla Roy Ramsey CF 1904* (Cornell G 1901) Bloomington, Ind.
Associate Professor of Physics, Indiana University

David Andrew Rothrock F 1905*† Bloomington, Ind.
Professor of Mathematics, Indiana University

Boyd Ray Sayers U 1906 Depew, N. Y.
Gould Storage Battery Company

Will Scott U 1907* Bloomington, Ind.
Assistant Professor of Zoology, Indiana University

George Daniel Schaffer G 1906 East Lansing, Mich.
Experiment Station, Michigan Agricultural College

Charles William Shannon U 1906 Norman, Okla.
Oklahoma Geological Survey

Fred Shetterly U 1906 Ithaca, N. Y.
Instructor in Chemistry, Cornell University

Frederick Lafayette Shinn F 1906* (Wisconsin CF 1907) Eugene, Ore.
Assistant Professor of Chemistry, University of Oregon

Augustus Clyde Shipp F 1910 Indianapolis, Ind.
Instructor in Pathology, Indiana University Medical College

Vesto Melvin Slipher A 1906* Flagstaff, Ariz.
Astronomer, Lowell Observatory

Luther Crocker Snider G 1909 Norman, Okla.
Assistant Director, Oklahoma Geological Survey

William Thomas Stevens G 1905 Milwaukee, Wis.
Professor of Educational Psychology, State Normal School

Vernon Andrew Suydam F 1907 Princeton, N. J.
Fellow in Physics, Princeton University

Albert Warrick Thompson U 1907 Owensville, Ind.

George Ellsworth Thompson G 1910 Ithaca, N. Y.
Assistant in Physics, Cornell University

William Motier Tucker G 1908 Anderson, Ind.
Teacher in High School

Orin Tugman G 1906* (Cornell G 1907) New York City
Engineer, Western Electric Company

James M Van Hook F 1906 (Cornell G 1902) Bloomington, Ind.
Assistant Professor of Botany, Indiana University

Kenneth Powers Williams G 1908 Princeton, N. J.
Scholar in Mathematics, Princeton University

William Logan Woodburn U 1908 Evanston, Ill.
Instructor in Botany, Northwestern University

Charles Zeleny F 1904* (Minnesota U 1898) Illinois F 1909;
Associate Professor of Zoology, University of Illinois [Urbana, Ill.

MISSOURI CHAPTER

University of Missouri, Columbia, Missouri

Charter Dated April 3, 1905 Chapter Installed May 12, 1905

HISTORICAL SKETCH

The records of the Chapter show that the first steps toward organization were taken in the early months of 1904. At the call of Doctor O. M. Stewart (Cornell 1895), the Sigma Xi members then on the faculty met to consider the advisability of petitioning the Society for a charter. It appeared that the time was ripe for such action and accordingly a petition was drawn up and signed by its initiators and other members of the faculty whose names appear upon the charter. This petition received favorable action by the Society, and in March, 1905, the petitioners formed a temporary organization. By-laws were adopted at a meeting on April 3, and on the fourteenth of that month temporary officers were elected. The first annual meeting was held May 10, 1905, at which fifteen faculty members, nine resident graduates, seven undergraduates, and one alumni member were elected. The Chapter was formally installed soon after by Dean F. O. Marvin, Chairman of the Council of the Society, at the home of President and Mrs. A. Ross Hill. Since the organization of the Chapter, twenty-seven faculty members, twenty-five resident graduates, sixty-seven undergraduates, and one alumnus have been elected to membership. The active members number sixty-one at present.

The by-laws of the Chapter provide for at least one meeting each semester at which one or more scientific papers are to be presented. These open meetings have been a means of giving recognition and honor to members for important contributions to science. With a view of making this provision more effective the Chapter, four years ago, entered into an agreement with the Chapters at Kansas, Iowa, and Nebraska, by the terms of which the four Chapters joined in inviting a speaker to give the annual address at each of the Chapters. This co-öperative plan has solved the difficulty often experienced in securing as speakers prominent scientists living at a distance. Doctor Charles Sedgwick Minot delivered the annual address in 1907, and in the year 1908 the speaker was Doctor Russell H. Chittenden of Yale University; in 1909, Doctor Arthur Gordon Webster of Clark University; in 1910, Doctor Percival Lowell. In spring of 1910 delegates from the four Chapters met at Iowa City to consider a renewal and extension of the co-öperative plan of securing Sigma Xi addresses. To meet the varied interests of the different Chapters it seemed desirable to discontinue the circuit and to extend the plan by forming two or more circuits. Accordingly, the Chapters of Kansas, Missouri, and Washington University formed a new agree-

ment for a period of three years. The first season was successfully inaugurated last fall by Doctor Edmund B. Wilson of Columbia University, who gave two addresses before each of the Chapters.

During the *six full years* of its existence the Chapter has contributed materially towards stimulating original investigation in the sciences, and to bringing its members into closer relationships with each other. Election to membership in Sigma Xi has become an effective force in directing the footsteps of the undergraduate student toward the pathway of original investigation. In the near future we hope that the Chapter may devise and establish new ways and means of stimulating and encouraging worthy and promising students in becoming zealous workers in the fields of scientific research.

H. S.

PUBLICATIONS

By-laws of the Missouri Chapter of the Sigma Xi. n. p. n. d.

OFFICERS FOR 1911–12

President.....Oliver Dimon Kellogg
Vice-President.....Clarence Henry Eckles
Recording Secretary.....Abraham Lincoln Hyde
Corresponding Secretary.....Herman Schlundt
Treasurer.....Lewis Darwin Ames
Councilor.....Oscar Milton Stewart

MEMBERSHIP ROLL

Leland Barton Alford U 1908 St. Louis, Mo.
Medical Student, Washington University

Jessie Blount Allen F 1908 (Chicago G 1904) Columbia, Mo.
(Mrs Werrett Wallace Charters)

Lewis Darwin Ames F 1905* Columbia, Mo.
Assistant Professor of Mathematics, University of Missouri

Lee Seldon Backus F 1908 (Cornell U 1906) Columbia, Mo.
Instructor in Veterinary Science, University of Missouri

Agnes Sime Baxter C 1905 (Cornell G 1894) Columbia, Mo.
(Mrs. Albert Ross Hill)

Elexious Thompson Bell F 1907* Minneapolis, Minn.
Assistant Professor of Anatomy, University of Minnesota

Robert Montgomery Bird F 1905* Charlottesville, Va.
Collegiate Professor of Chemistry, University of Virginia

Virgil Lee Board U 1910 Denver, Col.
Engineer, Denver Gas and Electric Company

William T Bovie G 1909 Cambridge, Mass.
Graduate Student, Harvard University

John Davis Bowles U 1909 St. Louis, Mo.
Electrical Engineer

Edwin Bayer Branson F 1910* (Chicago G 1904; Kansas U 1903)
Professor of Geology, University of Missouri [Columbia, Mo.

Clark Arthur Briggs U 1907 Washington, D. C.
Assistant Physicist, United States Bureau of Standards

Joseph Hugh Brooking U 1907 Springfield, Mo.
Assistant Engineer, Frisco Railroad

Charles Brooks G 1905 Durham, N. H.
Professor of Botany, New Hampshire College

William George Brown CF 1905*† Columbia, Mo.
Professor of Industrial Chemistry, University of Missouri

H Hays Bullard G 1909 New Orleans, La.
Instructor in Anatomy, Tulane University

Sidney Calvert F 1905* Columbia, Mo.
Professor of Organic Chemistry, University of Missouri

William Jeptha Calvert F 1905 Columbia, Mo.
Professor of Preventive Medicine, University of Missouri

Jesse Lee Carter U 1910 Oklahoma City, Okla.
Teacher of Biology, High School

William Henry Chandler U 1905 Columbia, Mo.
Assistant Professor of Horticulture, University of Missouri

Jessie (Allen) Charters F 1908 (Chicago G 1904) Columbia, Mo.
(Mrs Werrett Wallace Charters)

Lucius Franklin Childers G 1906 Moscow, Ida.
Professor of Agronomy, Idaho Experiment Station

Edward Wilson Chittenden U 1909 Chicago, Ill.
Graduate Student, University of Chicago

Wilbur Andrew Cochel U 1905 State College, Pa.
Professor of Animal Husbandry, Pennsylvania State College

Pleasant Theodore Cole U 1910 Norfolk, Va.
Assistant Horticulturist, Virginia Truck Experiment Station

John Waldo Connaway CF 1905 Columbia, Mo.
Professor of Comparative and Veterinary Medicine, University of Missouri

Cyrus Richard Crosby F 1906* Ithaca, N. Y.
Assistant Professor of Entomology, Cornell University

Winterton Conway Curtis F 1905* Columbia, Mo.
Professor of Zoology, University of Missouri

Walter Edward Dandy U 1907 Baltimore, Md.
Student Assistant in Surgery, Johns Hopkins University

Charles Thornton Dearing U 1909 Washington, D. C.
Assistant Pomologist, United States Department of Agriculture

David Hough Dolley F 1911* Columbia, Mo.
Professor of Pathology, Bacteriology and Hygiene, University of Missouri

Howard Waters Doughty F 1906* Amherst, Mass.
Associate Professor of Chemistry, Amherst College

Thomas Rankin Douglass U 1911 Columbia, Mo.
Assistant in Agronomy, University of Missouri

Benjamin Minge Duggar CF 1905*† (Cornell F 1897) Ithaca, N. Y.
Professor of Plant Physiology, Cornell University

Otto Dunkel F 1909* Columbia, Mo.
Instructor in Mathematics, University of Missouri

Elias Judah Durand F 1910* (Cornell U 1893) Columbia, Mo.
Assistant Professor of Botany, University of Missouri

Clarence Henry Eckles F 1905* Columbia, Mo.
Professor of Dairy Husbandry, University of Missouri

Earl Newton Elsea U 1910 Kennett, Mo.
Principal, High School

John Marcus Evvard F 1908 (Illinois U 1907) Ames, Ia.
Experimentalist in Animal Husbandry, Iowa State College

Ernest Howard Favor G 1905 St. Joseph, Mo.
Assistant Editor, Fruit Grower

Edwin Allen Fessenden G 1906 Columbia, Mo.
Assistant Professor of Mechanical Engineering, University of Missouri

Mary Alida Fitch G 1906 Lafayette, Ind.
Assistant in Botany, Indiana Experiment Station

Ruby Fitch G 1905 Springfield, Mo.
Teacher of Botany and Zoology, High School

Alan Estis Flowers F 1905* (Cornell U 1902) Columbia, Mo.
Assistant Professor of Electrical Engineering, University of Missouri

Ernest Browning Forbes F 1907 Wooster, Ohio
Chief of Department of Nutrition, Ohio Experiment Station

Lester R Ford U 1911 Columbia, Mo.
Scholar in Mathematics, University of Missouri

Harry Roscoe Fulton G 1905* State College, Pa.
Associate Professor of Botany, Pennsylvania State College

Beverly Thomas Galloway A 1905*† Washington, D. C.
Chief, Bureau of Plant Industry, United States Department of Agriculture

Robert Banks Gibson F 1907* (Yale U 1902) Minneapolis, Minn.
Assistant Professor of Physiological Chemistry, University of Minnesota

Clarence Allen Good CF 1905 St. Joseph, Mo.
Professor of Medicine, Ensworth Medical College

William Hammack Goodson G 1905 Liberty, Mo.
Physician

Arthur Maurice Greene, Jr CF 1905* (Pennsylvania F 1900) Troy, N. Y.
Professor of Mechanical Engineering, Rensselaer Polytechnic Institute

Charles Wilson Greene CF 1905* Columbia, Mo.
Professor of Physiology and Pharmacology, University of Missouri

John Casser Grossenbacher U 1906* Geneva, N. Y.
Associate Botanist, Agricultural Experiment Station

Thomas Sherwood Haddaway U 1911 Beaver, Utah
Electrical Engineer, Beaver River Power Company

Homer Huston Haggard U 1905 Havana, Cuba
Civil Engineer

Leonard Dixon Haigh G 1910 Columbia, Mo.
Assistant in Agricultural Chemistry, University of Missouri

Leonard Haseman F 1910 (Indiana G 1906) Columbia, Mo.
Instructor in Entomology, University of Missouri

Paul Hayhurst G 1905* Fayetteville, Ark.
Professor of Entomology, University of Arkansas

Eli Stuart Haynes U 1905* Berkeley, Cal.
Fellow in Astronomy, University of California.

Fred George Hechler U 1908 Troy, N. Y.
Instructor, Mechanical Engineering, Rensselaer Polytechnic Institute

Earle Raymond Hedrick CF 1905* (Yale G 1902) Columbia, Mo.
Professor of Mathematics, University of Missouri

Herbert Wade Hibbard F 1909* (Cornell G 1891) Columbia, Mo.
Professor of Mechanical Engineering, University of Missouri

Agnes Sime Baxter Hill C 1905 (Cornell G 1894) Columbia, Mo.
(Mrs Albert Ross Hill)

Albert Ross Hill CF 1905*† (Nebraska F 1897) Columbia, Mo.
President, University of Missouri

Albert Hogan G 1910 Columbia, Mo.
Research Fellow, Agricultural Chemistry, University of Missouri

Robert Francis Howard U 1908 Lincoln, Neb.
Assistant Professor of Horticulture, University of Nebraska

Walter Lafayette Howard F 1907* Columbia, Mo.
Professor of Horticulture, University of Missouri

Harley Earl Howe G 1906 Ithaca, N. Y.
Instructor in Physics, Cornell University

Harold DeMott Hughes F 1908 (Illinois U 1907) Ames, Ia.
Professor of Crop Production, Iowa State College

Wallie Abraham Hurwitz G 1906* Ithaca, N. Y.
Instructor in Mathematics, Cornell University

Claude Burton Hutchison U 1908 Columbia, Mo.
Assistant Professor of Agronomy, University of Missouri

Abraham Lincoln Hyde F 1906 Columbia, Mo.
Assistant Professor of Bridge Engineerng, University of Missouri

Louis Ingold F 1908 (Chicago G 1906) Columbia, Mo.
Instructor in Mathematics, University of Missouri

Clarence Martin Jackson F 1905* Columbia, Mo.
Professor of Anatomy and Dean, Medical Department, University of Missouri

Clarence Sylvester Jarvis U 1906 Provo, Utah
Civil Engineer, United States Deputy Mineral Surveyor

Richard Henry Jesse, Jr G 1906 Urbana, Ill.
Instructor in Chemistry, University of Illinois

Franklin Paradise Johnson U 1908 Boston, Mass.
Instructor in Histology and Embryology, Harvard University

Mary Lucille Keene U 1910 Columbia, Mo.
Assistant in Botany, University of Missouri

Oliver Dimon Kellogg F 1906* Columbia, Mo.
Professor of Mathematics, University of Missouri

Robert Russ Kern U 1905 Washington, D. C.
Assistant Professor of Economics, George Washington University

Raymond Alvan Kizer U 1906 Kansas City, Mo.
Draftsman, City Engineer's Office

Waldemar Koch F 1905* (Chicago CF 1903)
(Deceased)

Louis Otto Kunkel U 1909 St. Louis, Mo.
Research Fellow, Shaw School of Botany

William M Landess U 1910 Athens, Ga.
Veterinarian, in Charge of Hog Cholera Laboratory

Colin Kingsley Lee U 1911 Kansas City, Mo.
Deputy City Electrician

George Lefevre CF 1905*† Columbia, Mo.
Professor of Zoology, University of Missouri

Ruskin Lhamon U 1908 Manila, P. I.
Assistant Professor of Anatomy, University of the Philippines

Leo Loeb U 1906 Annapolis, Md.
Mechanical Engineer, U. S. Naval Experiment Station

Lawson Gentry Lowrey G 1910 Columbia, Mo.
Acting Assistant Professor in Anatomy, University of Missouri

Ned Chester Mann U 1910 St. Louis, Mo.
Draftsman, United Railway Company

Charles Fletcher Marbut CF 1905* Columbia, Mo.
Professor of Geology, University of Missouri

Charles Knox Martin U 1905 Doniphan, Mo.
Dairy Farmer

Gertrude Karen Mathiason G 1911 St. Louis, Mo.
Chemist

Jesse Francis McClendon F 1907* (Pennsylvania G 1905) New York
Instructor in Embryology, Cornell Medical College [City

Caroline McGill G 1905* Butte, Mont.
Assistant Professor of Anatomy, Murray Hospital

Walter James McMinn U 1908 Provo, Utah
Electrical Engineer, Telluride Power Company

Homer Elkanah McNatt U 1910 Columbia, Mo.
Assistant in Dairy Husbandry, University of Missouri

Karl Absalom McVey G 1910 Kansas City, Mo.
Construction Engineer, Rollins and Westover

Max Meyer CF 1905* Columbia, Mo.
Professor of Experimental Psychology, University of Missouri

Merritt Finley Miller F 1905 (Ohio U 1900) Columbia, Mo.
Professor of Agronomy, University of Missouri

Walter McNab Miller CF 1905 Columbia, Mo.
Secretary, Missouri Association for Control of Tuberculosis

Walter Scott Monroe U 1905 Chicago, Ill.
Graduate Student, University of Chicago

Verle Weaver Morris U 1911 Cicero, Ill.
Electrical Engineer

Charles Robert Moulton G 1907* (Illinois U 1905) Columbia, Mo.
Assistant Professor of Agricultural Chemistry, University of Missouri

Frederick Blackmar Mumford CF 1905*† Columbia, Mo.
Dean, College of Agriculture, University of Missouri

Max Washington Myer F 1905 St. Louis, Mo.
Surgeon

Guy Lincoln Noyes F 1905 Columbia, Mo.
Superintendent of Parker Memorial Hospital

Robert Morris Ogden F 1905* Knoxville, Tenn.
Assistant Professor of Philosophy and Psychology, University of Tennessee

Robert Conrad Palmer U 1909 Madison, Wis.
Chemical Engineer, Forest Products Laboratory

Leroy Sheldon Palmer U 1909 Columbia, Mo.
Dairy Chemist, U. S. Department of Agriculture, University of Missouri

Henry Clair Philippi U 1908 Bellingham, Wash.
Teacher, State Normal School

Howard Wade Price U 1911 Cleveland, Ohio
Mechanical Engineer, The Meriam Company

Charles Albert Proctor CF 1905* (Chicago G 1903) Hanover, N. H.
Assistant Professor of Physics, Dartmouth College

Merle Randall U 1907 Boston, Mass.
Fellow in Physical Chemistry, Massachusetts Institute of Technology

George Matthew Reed F 1908* Columbia, Mo.
Assistant Professor of Botany, University of Missouri

Howard Sprague Reed CF 1905* (Michigan CG 1903) Blacksburg, Va.
Professor of Bacteriology, Virginia Polytechnic Institute

Herbert Meredith Reese F 1905* Columbia, Mo.
Assistant Professor of Physics, University of Missouri

Harvey Clayton Rentschler F 1909* Columbia, Mo.
Assistant Professor of Physics, University of Missouri

Ernest Franklin Robinson G 1905 New York City
Junior Engineer, United States Engineer's Office

Charles Bradford Rodes G 1906 Butte, Mont.
Physician, Murray Hospital

Thomas Jacob Rodhouse F 1908 (Cornell G 1905) Columbia, Mo.
Assistant Professor of Hydraulic Engineering, University of Missouri

Hugh Chilton Rogers U 1911 Lexington, Mo.
Civil Engineer

Earl Wilson Rusk U 1909 Martin City, Mo.
Live Stock Farmer

Henry Perly Rusk U 1908 (Illinois F 1910) Urbana, Ill.
Associate in Beef Cattle Husbandry, Illinois Experiment Station

Oscar Charles Schaefer U 1909 Columbia, Mo.
Graduate Student, University of Missouri

Herman Schlundt F 1905*† Columbia, Mo.
Professor of Physical Chemistry, University of Missouri

Paul Schweitzer CF 1905*†
(Deceased 1911)

Frederick Hanley Seares CF 1905*† Pasadena, Cal.
Superintendent, Computing Division, Mt. Wilson Solar Observatory

Russell Alva See U 1910 Kansas City, Mo.
Draftsman, Kansas City Terminal Railway

Charles William Seibel U 1907 Chicago, Ill.
Engineer, in Charge of Meter and Service Department, Sanitary District

William Kerlin Seitz U 1906 St. Joseph, Mo.
Engineer, Seitz-Peterman Engineering Company

Homer Leroy Shantz F 1906* (Nebraska G 1905) Washington, D C.
Plant Physiologist, United States Department of Agriculture

Harlow Shapley U 1910 Princeton, N. J.
Fellow in Astronomy, Princeton University

Howard Burton Shaw CF 1905*† Columbia, Mo.
Dean, School of Engineering, University of Missouri

Roscoe Hart Shaw F 1908 (Nebraska F 1906) Washington, D. C.
Dairy Chemist, United States Department of Agriculture

Edwin Henry Schorer F 1908 Boston, Mass.
Fellow in Medicine, Harvard Medical School

Chester Gibbs Starr U 1906 Centralia, Mo.
Stock Breeder

John Moore Stedman CF 1905*† (Columbia U 1888) Washington, D. C.
Specialist in Agricultural Education Extension

Matthew Steele F 1910 (Columbia G 1908) Columbia, Mo.
Assistant Professor of Physiological Chemistry, University of Missouri

Oscar Milton Stewart CF 1905*† (Cornell G 1895) Columbia, Mo.
Professor of Physics, University of Missouri

Stanley Stokes U 1911 Columbia, Mo.
Assistant in Physics, University of Missouri

George Washington Tanreuther F 1910 (Chicago G 1905) Columbia, Mo.
Instructor in Zoology, University of Missouri

Perry Fox Trowbridge F 1907* (Illinois F 1905) Columbia, Mo.
Professor of Agricultural Chemistry, University of Missouri

Elmer Elsworth Vanatta G 1911 Columbia, Mo.
Assistant, Agricultural Chemistry, University of Missouri

Mary Shore Walker G 1904 Worcester, Mass.
(Mrs Albert W Hull)

Henry Jackson Waters F 1905*† Manhattan, Kan.
President, Kansas State Agricultural College

Luther Abraham Weaver U 1910 Columbia, Mo.
Instructor in Animal Husbandry, University of Missouri

Eula Adeline Weeks U 1908 Bryn Mawr, Pa.
Teacher of Mathematics, The Misses Shipley School

Mende Penco Weinbach U 1907 Columbia, Mo.
Instructor in Electrical Engineering, University of Missouri

Albert Paul Weiss U 1909 Columbia, Mo.
Assistant in Experimental Psychology, University of Missouri

Wilhelm David Allen Westfall. F 1908* (Yale U 1901) Columbia, Mo.
Assistant Professor of Mathematics, University of Missouri

Dwight Nelson Wetherell U 1910 Wiley, Col.
Civil Engineer, Wiley Power Company

Frank Elbert Wheelock F 1910 (Yale G 1910) Columbia, Mo.
Instructor in Physics, University of Missouri

Joseph Andrew Whitlow U 1908 Columbia, Mo.
Superintendent of Buildings, University of Missouri

John Charles Whitten CF 1905*† Columbia, Mo.
Professor of Horticulture, University of Missouri

Edwin Garder Woodward U 1911 Columbia, Mo.
Assistant in Dairy Husbandry, University of Missouri

Tom Elwyn Woodward G 1911 Washington, D. C.
Superintendent, Dairy Experiment Farm, U. S. Department of Agriculture

Turner Richard Haden Wright U 1909 Manhattan, Kan.
Assistant in Animal Husbandry, Kansas State College

Lewis Harry Winkler U 1907 Johnstown, Pa.
Testing Engineer, Cambria Steel Works

Clinton Talbot Yates U 1909 St. Louis, Mo.
Engineer, United Railway Company

Daisy Young G 1909 Shreveport, La.
Teacher of Biology

COLORADO CHAPTER

University of Colorado, Boulder, Colorado.

Charter Dated April 3, 1905 Chapter Installed May 20, 1905

HISTORICAL SKETCH

Colorado Chapter of the Society of the Sigma Xi was organized April 1, 1905, although the Charter is dated April 3, 1905. The formal installation occurred May 20, 1905, Doctor Henry Baldwin Ward of the University of Nebraska conducting the ceremonies. The installation address on The Society of the Sigma Xi was later published in pamphlet form by the Chapter. In an open public meeting which followed, Doctor Ward delivered an address on The Role of Animals in the Transmission of Disease.

At the close of each academic year a public meeting has been held, with an address by some prominent outside speaker, as follows:

1906: Doctor Thomas H. McBride, of Iowa City, Iowa, on The Response of Plants.

1907: Doctor Regis Chauvenet, of Denver, Colorado, on The Uses and Dangers of Scientific Theories.

1908: Doctor Florian Cajori, of Colorado Springs, Colorado, on The History of a Doctrine.

In addition to these open meetings and the regular business meetings, the Chapter has held two or three meetings each year at which were read scientific papers based upon research work done by the members. Many papers written by members have appeared in various technical periodicals but only one has been published under the auspices of the Chapter as given below.

J. H.

PUBLICATIONS

The Society of The Sigma Xi—(Address at the Installation of the Colorado Chapter, Society of the Sigma Xi, by Doctor Henry B. Ward of the University of Nebraska May 20th, 1905.) Boulder, Colorado, 1905, pp. 18.

By-Laws of the Colorado Chapter of the Society of the Sigma Xi. 1905, pp. 12.

OFFICERS FOR 1911–12

President.....John Bernard Ekeley
Vice-President.....Saul Epsteen
Recording Secretary.....Harry Alfred Curtis
Corresponding Secretary.....Harry Alfred Curtis
Treasurer.....Ira Mitchell DeLong
Councilor.....Francis Ramaley

MEMBERSHIP ROLL

Alfred Horace Allen U 1909 Boulder, Col.
Chemist

Philip Harry Argall G 1908 Victor, Col.
Manager, Independence Mine

John Christian Bailar G 1909 Golden, Col.
Assistant Professor of Chemistry, Colorado School of Mines

Joseph Hershey Bair CF 1905* Philadelphia, Pa.
Private Research

Dessie Brown Robertson Barrows F 1906 Moscow, Ida.
(Mrs Frank Lee Barrows)

Frank Lee Barrows U 1908 Moscow, Ida.
Physician

Amy Bell G 1907 Kingsville, Tex.
(Mrs Martin Emmet Miles)

William Raymond Brackett F 1910 Boulder, Col.
Instructor in Physics, University of Colorado

Clough Turrill Burnett F 1910 Boulder, Col.
Professor of Bacteriology, University of Colorado

Roy Morrill Butters G 1910 Boulder, Col.
Assistant in Geology, University of Colorado

Ruby Lily Carstens G 1906 Grand Valley, Col.
(Mrs Harry Evans Sovereign)

George Henry Cattermole CF 1905 Boulder, Col.
Physician

Maud Clark G 1905 Boulder, Col.
(Mrs John Gardiner)

Theodore Dru Alison Cockerell F 1905*† Boulder, Col
Professor of Zoology, University of Colorado

Wilmatte Porter Cockerell G 1907 Boulder, Col.
(Mrs Theodore Dru Alison Cockerell)

Claude C. Coffin U 1905 Fort Collins, Col.
Lawyer

Ralph Dixon Crawford F 1905 Boulder, Col.
Assistant Professor of Geology, University of Colorado

Harry Alfred Curtis U 1908 Boulder, Col.
Instructor in Chemistry, University of Colorado

Henry Baldwin Dates CF 1905 (Case F 1905) Cleveland, Ohio
Professor of Electrical Engineering, Case School of Applied Science

Paul Marshall Dean U 1908 Boulder, Col.
Instructor in Chemistry, University of Colorado

Ira Mitchell DeLong CF 1905* Boulder, Col.
Professor of Mathematics, University of Colorado

Gideon Stanhope Dodds G 1905 (Pennsylvania G 1909) Columbia, Mo.
Instructor in Zoology, University of Missouri

Frederick William Doolittle F 1907 (Illinois F 1908) Madison, Wis.
Assistant Professor of Mechanics, University of Wisconsin

William Duane CF 1905* Paris, France
Curie Laboratory, University of Paris

John Bernard Ekeley CF 1905* Boulder, Col.
Professor of Chemistry, University of Colorado

Arnold Emch CF 1905* (Kansas F 1895) Urbana, Ill.
Assistant Professor of Mathematics, University of Illinois

Saul Epsteen F 1906 (Chicago CF 1903) Boulder, Col.
Professor of Mathematics, University of Colorado

Herbert Silas Evans F 1906 (Nebraska G 1900) Boulder, Col.
Professor of Electrical Engineering, University of Colorado

Louise Henriette Falk F 1910 Fort Collins, Col.
(Mrs Wilfred William Robbins)

Valentine Benjamin Fischer U 1909 Boulder, Col.
Physician

Howard Carlton Ford F 1905 Ames, Ia.
Associate Professor of Engineering, Iowa State College

Maud Clark Gardiner G 1905 Boulder, Col
(Mrs J J P Odell)

Russell D George CF 1905* Boulder, Col.
State Geologist, Professor of Geology, University of Colorado

Frank Anthony Giacomini G 1908 Berlin, Germany
Graduate Student, University of Berlin

Clay Emery Giffin U 1905 Boulder, Col.
Physician

Luman Moody Giffin CF 1905 Boulder, Col.
Physician

Oscar Monroe Gilbert F 1905 Boulder, Col.
Professor of Medicine, University of Colorado

William Page Harlow F 1906 Boulder, Col.
Dean of Medical School, University of Colorado

Junius Henderson F 1905 Boulder, Col.
Professor of Natural History, University of Colorado

Vivian Allen Charles Henmon F 1906 (Columbia G 1907) Madison, Wis.
Associate Professor of Education, University of Wisconsin

Gerard Louis Cornelius Maarten van Rossen Hoogendijk F 1911
Instructor in Chemistry, University of Colorado [Boulder, Col.

John Andrew Hunter F 1905 Boulder, Col.
Professor of Engineering, University of Colorado

Whitney Clark Huntington F 1911 Boulder, Col.
Instructor in Civil Engineering, University of Colorado

Harold Leader Ireland G 1909 Pittsburgh, Pa.
Engineer, Westinghouse Electric and Manufacturing Company

Bethel Howard Jackson G 1906 Boulder, Col.
Fellow, University of Colorado

Edward Jackson F 1909 Denver, Col.
Physician and Professor of Ophthalmology, Colorado Medical School

David Rhys Jenkins F 1906 Boulder, Col.
Assistant Professor of Electrical Engineering, University of Colorado

Oscar Perry Johnston F 1906 Chicago, Ill.
Physician

Chancey Juday CF 1905 (Wisconsin CF 1907) Madison, Wis.
Biologist, Wisconsin Natural History Survey

Alfred Allen Kelley U 1911 Chicago, Ill.
Student with Western Electric Company

Henry James Kesner G 1907 Berkeley, Cal.
Assistant Professor of Engineering, University of California

Milo Smith Ketchum F 1905† Boulder, Col.
Dean of College of Engineering, University of Colorado

Fred Hutton Kroger G 1905 (Cornell F 1906) Brooklyn, N. Y.
Engineer, National Electric Signalling Company

Heman Burr Leonard G 1906 (Chicago G 1904) Eugene, Ore.
Assistant Professor of Mathematics, University of Oregon

Oliver Clarence Lester F 1907 (Yale F 1903) Boulder, Col.
Professor of Physics, University of Colorado

Charles Alfred Lory F 1905* Fort Collins, Col.
President, State Agricultural College

Martin Emmet Miles F 1905 Kingsville, Tex.
Physician

Amy Bell Miles G 1907 Kingsville, Tex.
(Mrs Martin Emmet Miles)

Earl Bowman Millard U 1910 (Illinois F 1911) Urbana, Ill.
Assistant in Chemistry, University of Illinois

Floyd Hays Millard U 1910 Urbana, Ill.

Johnson Edward Naugle U 1908 Star, Ida.
Physician

Winogene Nelson U 1908 Durango, Col.

Maud Clark Gardiner Odell G 1905 Boulder, Col.
(Mrs J J P Odell)

Alvin Roy Peebles F 1908 Boulder, Col.
Professor of Theory and Practice of Medicine, University of Colorado

Charles Franklin Poe U 1911 Boulder, Col.
Instructor in Chemistry, University of Colorado

Alfred Peter Poorman F 1908 Lafayette, Ind.
Assistant Professor of Mechanics, Purdue University

Dean Truxell Prosser U 1910 Cheyenne, Wyo.

Emley Barber Queal CF 1905 Boulder, Col.
Professor of Physiology, University of Colorado

Ethel Jackson Ramaley G 1909 Boulder, Col.
(Mrs Francis Ramaley)

Francis Ramaley CF 1905* (Minnesota G 1906) Boulder, Col.
Professor of Biology, University of Colorado

Wilfred William Robbins F 1909 Fort Collins, Col.
Instructor in Botany, Colorado Agricultural College

Dessie Brown Robertson F 1906 Moscow, Ida.
(Mrs Frank Lee Barrows)

Eugene Herbert Robertson CF 1905 Boulder, Col.
Physician

Walter Gustav Adolph Schulte G 1907 Salt Lake City, Utah
Physician

Guy Watson Smith F 1910 Boulder, Col.
Instructor in Mathematics, University of Colorado

Harry Evans Sovereign U 1908 Grand Valley, Col.
Engineer, Wilcox Canal Company

Ruby Lily Carstens Sovereign G 1906 Grand Valley, Col.
(Mrs H E Sovereign) Instructor in Mathematics, University of Colorado

Frank Robert Spencer F 1908 Boulder, Col.
Physician, Instructor, University of Colorado

Charles Stillman Sperry U 1911 Boulder, Col.
Civil Engineer

George Weatherworth Stratton U 1907 Columbus, Ohio
Instructor in Chemistry, Ohio State University

George Leonard Sullivan F 1908 (Nebraska G 1908) Bozeman, Mont.
Assistant Professor of Machine Design, Montana School of Mines

Arthur Lawrie Tatum F 1907 (Iowa G 1907) Madison, Wis.
Instructor in Pharmacology, University of Wisconsin

James Underhill G 1905 Idaho Springs, Col.
United States Mining Surveyor

George Albert Wall G 1908 Calgary, Alberta
Civil Engineer, Canadian Pacific Railway Company

Jacob H Wallace F 1906 Boulder, Col.
Designing Engineer

Robert John Wells G 1905 Loveland, Col.
Superintendent of Schools

Judson Ray West CG 1905 Seattle, Wash.
Assistant City Engineer

Ross Chauncey Whitman F 1908 Denver, Col.
Professor of Pathology, University of Colorado School of Medicine

Clement Clarence Williams F 1908 (Illinois U 1907) Boulder, Col.
Assistant Professor of Civil Engineering, University of Colorado

Philip George Worcester U 1909 Boulder, Col.
Instructor in Geology, University of Colorado

NORTHWESTERN CHAPTER

Northwestern University, Evanston, Illinois

Charter Dated January 17, 1906 Chapter Installed January 17, 1906

HISTORICAL SKETCH

The Northwestern Chapter of Sigma Xi was organized largely through the efforts of Professor Henry S. White, then Professor of Mathematics at Northwestern University and now at Vassar College. The first petition was signed by only nine persons but this was reinforced by a number of additional signatures and was finally sent to the general society about May 25, 1905.

The organization of the Chapter was authorized by President Edward L. Nichols, in a letter dated November 25, 1905. The preliminary organization was effected on December 1, 1905, with Professor Grant as Chairman. The installation of the chapter was made by President Nichols on the afternoon of January 17, 1906. The charter bears this date and contains the names of twenty-five charter members, in addition to whom four members were initiated at that time, whose names are not on the document. The date of installation was the two hundredth anniversary of the birth of Benjamin Franklin, and an appropriate celebration of this event was observed that evening. Professor J. A. James of Northwestern University gave an address on Franklin as a Diplomat, while President Nichols gave an address on Is Investigation Worth While? A reception was tendered by the University Guild.

At the first annual meeting, April 2, 1906, Professor Locy was elected President of the Chapter, and By-Laws were adopted. On April 6, 1906, Doctor George E. Hale gave an illustrated lecture on The Work of the Carnegie Solar Observatory at Mt. Wilson. At the initiation, June 13, 1906, Professor W. A. Locy delivered an address upon Investigation, illustrating it with work done the previous year in his department.

At the following initiation, December 19, 1906, Professor Jacob Reighard, of the University of Michigan, gave an address upon Habits of Nest Building Fishes. On January 25, 1907, Professor Crew and Professor Locy presented a careful discussion of the question What Sciences Should be Required in a College Course. On May 17, 1907, Professor Crew was elected President of the chapter, and the initiation occurred on May 24, 1907, on which occasion Professor Locy gave an address on The Life of Linnaeus, and his Special Service to Natural History. Professor Atwell also spoke upon Linnaeus as a Botanist.

On October 14, 1907, the subject of Osmosis was discussed from the points of view of Physics, Chemistry, Botany, and Zoology by Professors Tatnall, Young, Atwell, and Harper respectively. The next initiation took place November 22, with short addresses by members as follows:

J. H. Long, on Chemical Composition of Water; U. S. Grant, on Water as a Geological Agent; and O. H. Basquin, on Anchor and Frazil Ice. On February 19, 1908, Professor Cassius J. Keyser, of Columbia University, gave an address upon The Aims and Achievements of Modern Mathematicians. The initiation of members occurred on May 9, with a public address by John A. Brashear, Sc.D., LL.D., upon Some Problems in the Making of a Large Telescope.

In honor of the Darwin Centenary the chapter furnished a public lecture on February 19, 1909, by Professor E. G. Conklin of Princeton University, whose subject was the Life and Work of Charles Darwin. At the initiation on May 7, 1909, Mr. John F. Hayford of the Coast and Geodetic Survey, spoke upon the Work of the International Geodetic Association.

At the initiation, December 16, 1909, the program included a number of short papers:—Professor Grant, on Topographical and Geological Survey of Cook's Inlet, Alaska; Professor Crew, on Absorption of Light and Ionization; Professor Bauer, on A New Primary Battery; Professor Fox, on Spectra of Sun Spots; Professor Basquin, on Exponential Law of Endurance Tests. At the initiation, May 26, 1910, papers were given as follows:—Professor Fox, on Comets; Doctor Lewis, on The Pure Food Movement; Mr. E. V. Smith, on Spiral Ganglion Cells.

On December 1, 1910, a public lecture was given by Doctor D. T. MacDougal, of the Carnegie Institution, whose subject was American Deserts.

O. H. B.

OFFICERS FOR 1911–12

President ..... Philip Fox
Vice-President ..... Winford Lee Lewis
Recording Secretary ..... George Rogers Mansfield
Corresponding Secretary ..... Olin Hanson Basquin
Treasurer ..... Robert Richardson Tatnall
Councilor ..... William Albert Locy

MEMBERSHIP ROLL

Nathaniel G. Alcock — U 1906 — Chicago, Ill.
Student, Medical School, Northwestern University

Charles Beach Atwell — CF 1906* — Evanston, Ill.
Professor of Botany, Northwestern University

Joseph Ray Banister — U 1906
(Deceased 1907)

Olin Hanson Basquin — CF 1906* — Evanston, Ill.
Professor of Applied Mechanics, Northwestern University

William Charles Bauer — F 1909* — Evanston, Ill.
Professor of Electrical Engineering, Northwestern University

Charles Scofield Blair — G 1906 — Washington, D. C.
Geologist, U. S. Geological Survey

Gilbert Haven Cady — G 1907 (Illinois F 1910) — Chicago, Ill.
Assistant Geologist, Illinois State Geological Survey

Martin Rist Chase U 1907 Chicago, Ill.
Assistant in Anatomy, Medical School, Northwestern University

Laura Ethel Christman U 1910 Wheaton, Ill.
Teacher of Mathematics and Physics, High School

Justus Henry Cline G 1908 Stuarts Draft, Va.
Assistant Geologist, Virginia Geological Survey

Effie Virginia Fixen Clutton F 1909 Chicago, Ill.
(Mrs Fred H Clutton)

William Hawes Coghill F 1908 Evanston, Ill.
Instructor in Mineralogy and Mining, Northwestern University

Charles Edgar Corbin G 1907 Huron, S. D.
Professor of Mathematics, Huron College

Henry Crew CF 1906*† Evanston, Ill.
Professor of Physics, Northwestern University

Alja Robinson Crook CF 1906*† Springfield, Ill.
Curator, State Natural History Museum

George O Curme, Jr U 1909 Chicago, Ill.
Graduate Student in Chemistry, University of Chicago

David Raymond Curtiss CF 1906* Evanston, Ill.
Professor of Mathematics, Northwestern University

Thomas Matthew Dahm U 1907 Madison, Wis.
Assistant in Physics, University of Wisconsin

Charles Elijah Decker G 1907* Chicago, Ill.
Graduate Student in Geology, University of Chicago

Charles Ross Dines U 1907 Hanover, N. H.
Instructor in Mathematics, Dartmouth College

Lloyd Lyne Dines U 1906 Chicago, Ill.
Fellow in Mathematics, University of Chicago

Milton Walker Eddy U 1909 State College, Pa.
Instructor in Zoology and Entomology, Pennsylvania State College

Thomas Oscar Edgar A 1908 St. Louis, Mo.
Doctor of Eye, Ear, Nose and Throat

Philip Fox F 1909* Evanston, Ill.
Professor of Astronomy and Director of Dearborn Observatory

Gordon Scott Fulcher G 1905* (Wisconsin F 1909) Madison, Wis.
Instructor in Physics, University of Wisconsin

Newell Clark Gilbert G 1907 Chicago Heights, Ill.
Physician and Surgeon

James Walter Goldthwait CF 1906* Hanover, N. H.
Professor of Geology, Dartmouth College

Cornelius Gouwens U 1910 South Holland, Ill.

Ulysses Sherman Grant CF 1906*† (Minnesota F 1896) Evanston, Ill.
William Deering Professor of Geology, Northwestern University

Elisha Hall Gregory CF 1906† Munich, Germany

Cora Guthier U 1910 Phillips, Wis.
Teacher of Science, Phillips High School

Rufus Clifford Hall U 1906 Washington, D. C.
Forest Service, U. S. Department of Agriculture

Winfield Scott Hall CF 1906*† Chicago, Ill.
Professor of Physiology and Junior Dean, Medical School, Northwestern University

Eugene Howard Harper CF 1906* Evanston, Ill.
Assistant Professor of Zoology, Northwestern University

Abram Winegardner Harris F 1908*† Evanston, Ill.
President, Northwestern University

John Fillmore Hayford F 1897*† (Cornell F 1896) Evanston, Ill.
Director of College of Engineering, Northwestern University

Claude William Heaps U 1909 Princeton, N. J.
Fellow in Physics, Princeton University

Enid Hennessey U 1909 Evanston, Ill.
Biology Teacher, Chicago High Schools

Daniel Franklin Higgins U 1907 Songdo, Korea
Anglo-Korean School, Science Department

Louis Ernest Hildebrand G 1909 Kenilworth, Ill.
Instructor in Biology, New Trier High School

Charles Hill CF 1906*† Chicago, Ill.
Physician

Murray Arnold Hines F 1907* Evanston, Ill.
Assistant Professor of Chemistry, Northwestern University

Edwin Fred Hirsch U 1910 Urbana, Ill.
Fellow in Zoology, University of Illinois

Lola Sevilla Hitch U 1907 Palmyra, N. J.
Instructor in Science, High School

Raymond Royce Hitchcock G 1908 University, N. D.
Instructor in Mathematics, State University of North Dakota

Thomas Franklin Holgate CF 1906*† Evanston, Ill.
Dean of College of Liberal Arts, Northwestern University

Lloyd Holsinger G 1908 Evanston, Ill.
Instructor in Mathematics, Evanston Academy

George J Hough A 1907 Denver, Col.
Metallurgist, Partridge Smelter Company

George Washington Hough CF 1906*†
(Deceased 1909)

Leland Wesley Irish A 1909 (Union U 1904) Evanston, Ill.
Civil Engineer

Herbert Govert Keppel CF 1906* Gainesville, Fla.
Professor of Mathematics, University of Florida

Raymond Castle Kotz U 1907 Chicago, Ill.
Instructor in Science, Carl Schurz High School

Ella W Kracke U 1910 Wabash, Ind.
Science Teacher, Arlington Heights College

Winford Lee Lewis F 1908 (Chicago G 1907) Evanston, Ill.
Instructor in Chemistry, Northwestern University

William Albert Locy CF 1906*† Evanston, Ill.
Professor of Zoology, Northwestern University

John Harper Long CF 1906*† (Kansas A 1890) Chicago, Ill.
Professor of Chemistry, Northwestern University Medical School

George Vest McCauley U 1907 Madison, Wis.
Fellow in Physics, University of Wisconsin

George Rogers Mansfield F 1909* Evanston, Ill.
Assistant Professor of Geology, Northwestern University

Clyde Orlando Marietta F 1908 St. Louis, Mo.
Instructor in Mathematics, Washington University

Charles Searing Mead G 1909 (Ohio U 1904) New York City
Horticulturist, Sante Fe, Isle of Pines, West Indies

John Wesley Merritt U 1911 Evanston, Ill.
Fellow in Geology, Northwestern University

Robert Lee Moore F 1908* Evanston, Ill.
Instructor in Mathematics, Northwestern University

James Caddell Morehead CF 1906* Evanston, Ill.
Assistant Professor of Mathematics, Northwestern University

John Hiram Norris U 1909 Redfield, S. D.

Charles Wesley Darwin Parsons CF 1906* (Cornell U 1897) Chicago, Ill.
Superintendent of Laboratory, Central Scientific Company

Caro Beth Peck U 1908 Washington, D. C.
Clerk, Civil Service Commission

Leigh H Pennington F 1909* (Michigan U 1906) Syracuse, N. Y.
Assistant Professor of Botany, Syracuse University

Raymond Haines Pond CF 1906*
(Deceased)

Thomas Lansing Porter U 1906 Colorado Springs, Col.
Professor of Physics, Colorado College

Miner Raymond U 1906 Chicago, Ill.
Sales Department, Webster Manufacturing Company

Gilbert Henry Andrew Rech G 1907 Chicago, Ill.
Bond Department, Illinois Trust and Savings Bank

Leslie Hall Redelings G 1909 Baltimore, Md.
Student, Johns Hopkins Medical School

Charles Gilbert Sabin G 1906 Portland, Ore.
Physician

Arthur Hawley Sanford G 1907 Milwaukee, Wis.
Professor of Physiology, Marquette University Medical College

Etoile Bessie Simons U 1904 (Chicago G 1905) Indianapolis, Ind.
Botanist, Manual Training School

Eli Victor Smith G 1909 Seattle, Wash.
Assistant Professor of Zoology, University of Washington

Keith Kuenzie Smith U 1909 Princeton, N. J.
Assistant in Physics, Princeton University

Virgil Ray Stephens U 1908 Marshall, Mo.
Professor of Biology, Missouri Valley College

Harold Stiles G 1907 Sioux City, Ia.
Professor of Physics, Morningside College

Leon Irwin Shaw F 1911 (Syracuse G 1908; Wisconsin F 1909)
Instructor in Chemistry, Northwestern University [Evanston, Ill.

Robert Richard Tatnall CF 1906* Evanston, Ill.
Associate Professor of Physics, Northwestern University

Emma Jane Thomas G 1906 La Grange, Ill.
Teacher of Biology, High School

Granville Howard Twining G 1906 Milwaukee, Wis.
Surgeon, Milwaukee Railway Hospital

Lora Hennessey Walker U 1906 Ridgeway, Mo.
(Mrs J H Walker)

Lewis Hart Weld F 1909* Evanston, Ill.
Instructor in Biology, Evanston Academy

Henry Seely White CF 1906*† Poughkeepsie, N. Y.
Professor of Mathematics, Vassar College

Theodore Whittelsey CF 1906* Mishawaka, Ind.
Rubber Regenerating Company

Robert Edward Wilson CF 1906* Evanston, Ill.
Assistant Professor of Mathematics, Northwestern University

Abram Van Eps Young CF 1906*† Evanston, Ill.
Professor of Chemistry, Northwestern University

John Wesley Young CF 1906* (Cornell G 1901) Hanover, N. H.
Head of Department of Mathematics, Dartmouth College

Frederic Robert Zeit CF 1906* Chicago, Ill.
Professor of Pathology and Bacteriology, Northwestern University Medical

SYRACUSE CHAPTER

Syracuse University, Syracuse, New York

Charter Dated May 18, 1906 Chapter Installed May 18, 1906

HISTORICAL SKETCH

The petition for the establishment of the Syracuse Chapter of Sigma Xi at Syracuse University was sent to the President of the general Society in the autumn of 1905. Upon receipt of the unanimous approval of the already existing chapters, fifteen members of the faculty of Syracuse University and one graduate student, a member of the Chapter at Brown University, met on May 9 and elected Professor William H. Metzler as the first President of the Syracuse Chapter. On the evening of May 18, 1906, at the University Club in the city of Syracuse, these fifteen charter members were formally installed as the Syracuse Chapter of Sigma Xi by President Nichols of the National Society, who gave a public address entitled, Does Research Pay?

Research papers were read before the Society by its own members during 1906 and 1907. Three open meetings were held during 1907 and 1908 with addresses by Professor Charles F. Binns, Director of the State School of Ceramic Arts, Alfred, N. Y.; Doctor B. W. Evermann of the Bureau of Fisheries, Washington, D. C.; and Professor C. B. Child, of Colgate University. The fourth meeting was devoted to research reports by the members of the Syracuse Chapter.

During the year 1908 and 1909 three meetings were held at which research reports were presented by various members of the faculty; and one open meeting in celebration of the Darwin Centenary. Papers were given as follows: Darwin and Zoology, Professor C. W. Hargitt; Darwin and Botany, Professor W. L. Bray; Darwin and Geology, Doctor John M. Clarke, State Geologist, Albany, N. Y.

Four meetings were held during the year 1909 and 1910, which were devoted to research reports from various members of the Chapter.

In 1910 and 1911 there have been three meetings; two devoted to research reports, and one open meeting in conjunction with the Syracuse Section of the American Chemical Society, which was addressed by Doctor Harvey W. Wiley, Chief Chemist of the Department of Agriculture, Washington, D. C., upon the Services of Chemistry to the Public Welfare.

C. H. R.

PUBLICATIONS

The Chapter has published no reports as a Chapter, but many of its members have published research articles through their natural channels, since the organization of the Chapter in the spring of 1906. These publications are kept on file by the Secretary of the Chapter and will soon be placed in an alcove in the Carnegie Library of the University.

OFFICERS FOR 1911–12

President.....Thomas Cramer Hopkins
Vice-President.....Marion S. Dooley
Recording Secretary.....Charles Henry Richardson
Corresponding Secretary.....Charles Henry Richardson
Treasurer.....Floyd Fiske Decker
Councilor.....William Henry Metzler

MEMBERSHIP ROLL

Ebenezer Henry Archibald CF 1906* Syracuse, N. Y.
Associate Professor of Chemistry, Syracuse University

Maulsby Willett Blackman F 1909* Syracuse, N. Y.
Associate Professor of Zoology, Syracuse University

Arthur E Brainerd G 1911 Syracuse, N. Y.
Assistant in Geology, Syracuse University.

William L Bray F 1907*† Syracuse, N. Y.
Professor of Botany, Syracuse University

Edith Bronson G 1910 Baltimore, Md.
Student, Medical College, Johns Hopkins University

Harold Hiram Brown G 1909 Syracuse, N. Y.
Instructor in Chemistry, Syracuse University

Roger Frederic Brunel F 1907* Syracuse, N. Y.
Assistant Professor of Chemistry, Syracuse University

Warren Gardner Bullard F 1906* Syracuse, N. Y.
Professor of Mathematics, Syracuse University

Marie Elizabeth Cashman G 1911 Syracuse, N. Y.
Graduate Student in Biology, Syracuse University.

Burton William Clark G 1907 Washington, D. C.
Geologist, United States Geological Survey

Elizabeth Garrett Clark G 1911 Syracuse, N. Y.
Graduate Student in Biology, Syracuse University.

Gaylord Parsons Clark F 1906*
(Deceased 1907)

Herbert Anthony Clark CF 1906 (Kansas U 1897) Syracuse, N. Y.
Associate Professor of Physics, Syracuse University

Edgar Davidson Congdon A 1907 New York City
Instructor in Embryology, Cornell Medical School

Ernest Franklin Conway G 1910 Syracuse, N. Y.
Science Teacher, Central High School

John Wesley Cuningham G 1910 Syracuse, N. Y.
Graduate Student in Mathematics, Syracuse University

Floyd Fiske Decker G 1906* Syracuse, N. Y.
Assistant Professor of Mathematics, Syracuse University

Marion S Dooley F 1910 Syracuse, N. Y.
Instructor in Physiology, Syracuse University

Frank Ernest Eldredge G 1910 Port Jervis, N. Y.
Head of Science, High School

Neil E Gordon G 1911 Syracuse, N. Y.
Graduate Student in Mathematics, Syracuse University.

William Pratt Graham CF 1906* Syracuse, N. Y.
Professor of Electrical Engineering, Syracuse University

George Arthur Hanford F 1906 (Yale U 1898) Syracuse, N. Y.
Chemist, G. C. Hanford Manufacturing Company.

Charles Wesley Hargitt CF 1906*† Syracuse, N. Y.
Professor of Zoology, Syracuse University

George Thomas Hargitt CF 1906* (Nebraska G 1903) Evanston, Ill.
Instructor in Zoology, Northwestern University

Walter David Harris F 1907* (Nebraska U 1906) Syracuse, N. Y.
Assistant Professor of Physics, Syracuse University.

Howard Farnum Hart CF 1906 (Brown U 1904) Montclair, N. J.
Instructor in Mathematics, High School.

Fred W Hartwell G 1908 New York City
Teacher of Zoology, High School of Commerce

Frederick Addison Harvey F 1910 (California U 1905) Syracuse, N. Y.
Assistant Professor of Physics, Syracuse University

Robert Henry Haskell F 1910 (Michigan U 1910) Syracuse, N. Y.

Warren Witherell Hilditch F 1909* (Yale G 1909) New York City
Chief Chemist, Doctor E. E. Smith Laboratory

Harvey Nelson Holmes G 1909 Oxford, N. Y.
Principal of Oxford Academy

Thomas Cramer Hopkins CF 1906*† (Stanford A 1904) Syracuse, N. Y.
Professor of Geology, Syracuse University

Ruth B Howland G 1908 Sweet Briar, Va.
Associate Professor of Biology, Sweet Briar College

Francis A Hulst F 1907 Brooklyn, N. Y.
Physician

Louis Cleveland Jordy G 1910 Kingston, Pa.
Teacher of Chemistry, Wyoming Seminary

Ernest C Keenan G 1909 Syracuse, N. Y.
Associate Professor of Mathematics, Syracuse University

William Kent F 1906*† Montclair, N. J.
Consulting Engineer, New York City

John William Kern G 1910 Elmira, N. Y.
Teacher of Science, Elmira Free Academy

Joseph Edward Kirkwood CF 1906* Missoula, Mont.
Professor of Botany and Forestry, University of Montana

Frank Pattengill Knowlton F 1907* Syracuse, N. Y.
Professor of Physiology, Syracuse University

Dyer Barker Lake G 1909 Alfred, N. Y.
Professor of Chemistry, Alfred University

James Nelson Lawrence G 1910 Madison, Wis.
Teaching Fellow in Chemistry, University of Wisconsin

Louis Lindsey G 1907 Syracuse, N. Y.
Instructor in Mathematics, Syracuse University

Archibald Lindsey G 1910 Washington, D. C.
Assistant Exmainer, United States Patent Office

Nathaniel Edward Loomis G 1909 Brunswick, Me.
Instructor in Chemistry, Bowdoin College

James Watt Mavor G 1910 Syracuse, N. Y.
Instructor in Zoology, Syracuse University

William Ralph Maxon A 1906* Washington, D. C.
Assistant Curator, United States National Museum

Albert John May A 1907 Reading, Pa.
Teacher of Science, High School for Boys

Edwin Florince McCarthy F 1911 (Michigan U 1911) Syracuse, N. Y.
Assistant Professor of Forestry, Syracuse University

Fred Marlen Meader F 1911 Syracuse, N. Y.
Assistant Professor of Hygiene and Sanitation, Syracuse University

Elizabeth Read Merritt G 1911 Syracuse, N. Y.
Graduate Student in Mathematics, Syracuse University

George Frederick Metzler F 1908* Syracuse, N. Y.
Assistant Professor of Mathematics, Syracuse University

William Henry Metzler CF 1906*† Syracuse, N. Y.
Professor of Mathematics, Syracuse University

Louis Mitchell F 1910 (Purdue U 1910) Syracuse, N. Y.
Instructor in Civil Engineering, Syracuse University

John Harold Morecroft, Jr G 1907 New York City
Assistant Professor of Electrical Engineering, Columbia University

Charles Virgin Morrill F 1908* (Columbia G 1906) New York City
Instructor in Anatomy, Bellevue Medical College

John Arthur Northcott G 1909 Syracuse, N. Y.
Instructor in Mathematics, Syracuse University

John DeWolf Northrop G 1910 Washington, D. C.
Geologist, United States Geological Survey

Paul Cook Nugent CF 1906*† Syracuse, N. Y.
Professor of Civil Engineering, Syracuse University

Charles Packard G 1907 New York City
Assistant in Zoology, Columbia University

Ernest Noble Pattee F 1906* Syracuse, N. Y.
Professor of Chemistry, Syracuse University

Henry Allen Peck F 1908*† Syracuse, N. Y.
Professor of Astronomy, Syracuse University

Leigh H Pennington F 1910* (Michigan U 1906) Syracuse, N. Y.
Assistant Professor of Botany, Syracuse University

Clinton W Perry G 1911 Syracuse, N. Y.
Graduate Student and Fellow in Mineralogy, Syracuse University

Ruth Laura Phillips G 1911 Syracuse, N. Y.
Assistant in Zoology, Syracuse University

Daniel Pratt G 1906 Syracuse, N. Y.
Assistant Professor of Mathematics, Syracuse University

Albert Moore Reese CF 1906*† Morgantown, W. Va.
Professor of Zoology, University of West Virginia

Lepine Hall Rice G 1908 Syracuse, N. Y.
Instructor in Mathematics, Syracuse University

Charles Henry Richardson F 1907* Syracuse, N. Y.
Professor of Mineralogy, Syracuse University

Edward Drake Roe, Jr CF 1906*† Syracuse, N. Y.
Professor of Mathematics, Syracuse University

Charles Gardner Rogers CF 1906* Syracuse, N. Y.
Professor of Physiology, Syracuse University

Frederick Albert Saunders CF-1906* Syracuse, N. Y.
Professor of Physics, Syracuse University

Harold Dickinson Senior F 1907*† New York City
Professor of Anatomy, New York University

Leon Irwin Shaw G 1908 Evanston, Ill.
Instructor in Chemistry, Northwestern University

George H Shepard F 1908 Syracuse, N. Y.
Dean of College of Applied Science, Syracuse University

Julian Chase Smallwood F 1911 Syracuse, N. Y.
Assistant Professor of Experimental Engineering, Syracuse University

William Martin Smallwood CF 1906* Syracuse, N. Y.
Professor of Comparative Anatomy, Syracuse University

Bertram Garner Smith F 1907* (Michigan U 1907) New York City
Graduate Student, Columbia University

Burnett Smith F 1907* (Pennsylvania F 1904) Syracuse, N.Y.
Assistant Professor of Geology, Syracuse University

Eugene Randolph Smith A 1906* Brooklyn, N. Y.
Head of Department of Mathematics, Polytechnic Preparatory School

Harry Monmouth Smith CF-1906* Syracuse, N. Y.
Professor of Chemistry, Syracuse University

Halbert Severin Steensland F 1906* Syracuse, N. Y.
Professor of Pathology and Bacteriology, Syracuse University

Ralph Edmond Wager A 1907 De Kalb, Ill.
Head of Biology, Northern Illinois Normal School

Herbert C Ward F 1911 Syracuse, N. Y.
Assistant Professor of Bacteriology, Syracuse University

Herman G Weiskotten F 1911 Syracuse, N. Y.
Instructor in Pathology, Syracuse University

Rich Dean Whitney G 1911 Syracuse, N. Y.
Instructor in Electrical Engineering, Syracuse University

Wendell Garrett Wilcox G 1906* Madison, Wis.
Instructor in Chemistry, University of Wisconsin

WISCONSIN CHAPTER

University of Wisconsin, Madison, Wisconsin

Charter Dated January 18, 1907 Chapter Installed January 18, 1907

HISTORICAL SKETCH

The first concerted movement for the establishment of a chapter of Sigma Xi at the University of Wisconsin took place in October, 1906. There were then twenty-two members of Sigma Xi in the University faculty. These twenty-two men, together with twenty other members of the scientific faculty, petitioned the national organization for a charter in November of the same year. Word was received from President Nichols in December that favorable action had been taken by the various chapters upon the petition from the University of Wisconsin and the charter members were authorized to proceed with the organization of a Chapter of the Society at Wisconsin.

The Chapter was installed by President Nichols January 18, 1907, with a charter membership of forty-two.

The membership of the Society has been drawn from the University faculty and graduate students. No undergraduates have been admitted so far.

H. J. T.

OFFICERS FOR 1911–12

President.....George Wagner
Vice-President.....Richard Fischer
Recording Secretary.....George Jacob Davis, Jr.
Corresponding Secretary.....Charles Elmer Allen
Treasurer.....James Aston
Councilor.....Victor Lenher

MEMBERSHIP ROLL

Bennett Mills Allen CF 1907* (Chicago C 1903) Madison, Wis.
Assistant Professor of Zoology, University of Wisconsin

Charles Elmer Allen CF 1907* Madison, Wis.
Professor of Botany, University of Wisconsin

Martin Fuller Angell A 1911 Albuquerque, N. M.
Professor of Physics, University of New Mexico

James Aston F 1909 Madison, Wis
Instructor in Chemical Engineering, University of Wisconsin

Louis Fred Augspurger A 1910 Munich, Germany
Student, University of Munich

Charles Russell Bardeen CF 1907*† Madison, Wis.
Dean of College of Medicine, University of Wisconsin

Murray Charles Beebe F 1907 Madison, Wis.
Professor of Electrical Engineering, University of Wisconsin

Edward Bennett F 1910* Madison, Wis.
Associate Professor of Electrical Engineering, University of Wisconsin

Edward Asahel Birge CF 1907*† Madison, Wis.
Dean of College of Letters and Science, University of Wisconsin

Raymond Thayer Birge G 1910 Madison, Wis.
Assistant in Physics, University of Wisconsin

Eliot Blackwelder CF 1907 (Chicago CG 1903) Madison, Wis.
Associate Professor of Geology, University of Wisconsin

Harold Cornelius Bradley CF 1907 (Yale F 1903) Madison, Wis.
Assistant Professor of Physiological Chemistry, University of Wisconsin

James Miller Breckenridge A 1909 Gloucester, N. J.
Research Chemist, Welsbach Light Company

Howard Stanley Bristol G 1910* Madison, Wis.
Assistant Director, Forest Products Laboratory, University of Wisconsin

Wade Hampton Brown A 1909* Chapel Hill, N. C.
Professor of Pathology, University of North Carolina

Herbert Earle Buchanan A 1909 Knoxville, Tenn.
Professor of Mathematics, University of Tennessee

Charles Henry Bunting F 1908* Madison, Wis.
Professor of Pathology, University of Wisconsin

Charles Frederick Burgess CF 1907*† Madison, Wis.
Professor of Chemical Engineering, University of Wisconsin

Horace Thomas Burgess F 1909 Madison, Wis.
Instructor in Mathematics, University of Wisconsin

Earl Smead Burnett F 1908 Madison, Wis.
Instructor in Physics, University of Wisconsin

Ormond Bourke Butler F 1910* Madison, Wis.
Instructor in Horticulture, University of Wisconsin

Alexander Graham Christie F 1911 Madison, Wis.
Assistant Professor of Steam Engineering, University of Wisconsin

Arthur Brooks Clawson CA 1907 (Michigan G 1905) Washington, D. C.
Assistant, Bureau of Soils

Mcgarvey Cline F 1909 Madison, Wis.
Director, Forest Products Laboratory, University of Wisconsin

Leon Jacob Cole F 1909* Madison, Wis.
Associate Professor of Experimental Breeding, University of Wisconsin

George Cary Comstock F 1909*† Madison, Wis.
Professor of Astronomy and Director of Graduate School, University of Wisconsin

William Henry Collins A 1911 Ottawa, Canada
Assistant Geologist, Canadian Geological Survey

Guy Conrey G 1911 Madison, Wis.
Chemist, Wisconsin Soils Survey

Charles Ives Corp G 1910 Madison, Wis.
Assistant in Hydraulics, University of Wisconsin

James Nimrod Currie F 1909 Madison, Wis.
Instructor in Chemistry, University of Wisconsin

Thomas Matthew Dahm G 1909 Madison, Wis.
Assistant in Physics, University of Wisconsin

William Willard Daniells F 1907*† Madison, Wis.
Emeritus Professor of Chemistry, University of Wisconsin

George Jacob Davis, Jr CA 1907 (Cornell U 1902) Madison, Wis.
Assistant Professor of Hydraulic Engineering, University of Wisconsin

John Jefferson Davis F 1911 Madison, Wis.
Curator of Herbarium, University of Wisconsin

Horace Grove Deming F 1910 Madison, Wis.
Instructor in Chemistry, University of Wisconsin

Rollin Henry Denniston F 1907* Madison, Wis.
Assistant Professor of Botany, University of Wisconsin

Robert Conrad Disque F 1911 Madison, Wis.
Instructor in Electrical Engineering, University of Wisconsin

Howard Waters Doughty CF 1907* (Missouri F 1906) Amherst, Mass.
Assistant Professor of Chemistry, Amherst College

Linnaeus Wayland Dowling F 1907* Madison, Wis.
Assistant Professor of Mathematics, University of Wisconsin

Arnold Dresden F 1911 Madison, Wis.
Instructor in Mathematics, University of Wisconsin

Emil Oscar Ellingson F 1911 Madison, Wis.
Instructor in Chemistry, University of Wisconsin

John Augustine English Eyster F 1911 Madison, Wis.
Professor of Physiology, University of Wisconsin

Edward Holyoke Farrington CF 1906 Madison, Wis.
Professor of Dairy Husbandry, University of Wisconsin

Nevin Melanchthon Fenneman CA 1907* (Chicago A 1904) Cincinnati, Ohio
Professor of Geology, University of Cincinnati

Richard Fischer CF 1906* Madison, Wis.
Professor of Pharmacy, University of Wisconsin

Albert Stowell Flint F 1907*† Madison, Wis.
Astronomer, University of Wisconsin

William Elmer Forsythe F 1909 Madison, Wis.
Instructor in Physics, University of Wisconsin

William Dodge Frost F 1906* Madison, Wis.
Associate Professor of Bacteriology, University of Wisconsin

Gordon Scott Fulcher F 1909* (Northwestern G 1905) Madison, Wis.
Instructor in Physics, University of Wisconsin

Caleb Allen Fuller CF 1907 (Brown G 1901) Madison, Wis.
Assistant Professor of Bacteriology, University of Wisconsin

Otis Amsden Gage F 1907* (Cornell G 1904) Madison, Wis.
Assistant Professor of Physics, University of Wisconsin

Wilson Parham Gee A 1911 Clemson College, S. C.
Assistant Zoologist, South Carolina Agricultural Experiment Station

Edward Martinius Gilbert F 1911 Madison, Wis.
Assistant Professor of Botany, University of Wisconsin

Edward Merriam Griffith F 1909 Madison, Wis.
State Forester, Lecturer in Forestry, University of Wisconsin

Michael Frederick Guyer F 1911 Madison, Wis.
Professor of Zoology, University of Wisconsin

Edward Bennington Hall F 1908 Springfield, Mo.
Professor of Geology, Drury College

Roy Dykes Hall CA 1906 (Pennsylvania G 1904)
Westinghouse Lamp Company Bloomfield, N. J.

Carl Hambuechen A 1909 Madison, Wis.
With Northern Chemical Engineering Company

Bernard Wernick Hammer A 1910 Ames, Ia.
Dairy Bacteriologist, Iowa State College

Robert Almer Harper CA 1906*† New York City
Professor of Botany, Columbia University

Edwin Bret Hart F 1907 Madison, Wis.
Professor of Agricultural Chemistry, University of Wisconsin

Robert Harvie, Jr A 1911 Ottawa, Canada
Assistant Geologist, Canadian Geological Survey.

Edwin George Hastings CF 1907 (Ohio A 1905) Madison, Wis.
Associate Professor of Bacteriology, University of Wisconsin

Francis Thompson Havard F 1910 Madison, Wis.
Assistant Professor of Mining Engineering, University of Wisconsin

Lee Fred Hawley F 1909 Madison, Wis.
Chemist, Forest Products Laboratory

William Arnon Henry F 1907*† Madison, Wis.
Emeritus Professor of Agriculture, University of Wisconsin

Charles Warren Hill F 1909 Madison, Wis.
Instructor in Chemistry, University of Wisconsin

Conrad Hoffman F 1909 Madison, Wis.
Assistant Professor of Agricultural Bacteriology, University of Wisconsin

Edwin Chapin Holden F 1909 Madison, Wis.
Professor of Mining Engineering, University of Wisconsin

Samuel Jackson Holmes CF 1907*† (Michigan F 1903) Madison, Wis.
Assistant Professor of Zoology, University of Wisconsin

William Otis Hotchkiss F 1907 Madison, Wis.
State Geologist, Geological and Natural History Survey

Winfield Scott Hubbard A 1910 Ann Arbor, Mich.
Instructor in Pharmacy, University of Michigan

Clarence John Humphrey F 1908* Madison, Wis.
Pathologist, Forest Products Laboratory

Leonard Rose Ingersoll F 1907 Madison, Wis.
Associate Professor in Physics, University of Wisconsin

Cyril Methodius Jansky F 1908* Madison, Wis.
Associate Professor of Electrical Engineering, University of Wisconsin

Dugald Caleb Jackson CA 1907*† Boston, Mass.
Professor of Electrical Engineering, Massachusetts Institute of Technology

Joseph Jastrow CF 1907*† Madison, Wis.
Professor of Psychology, University of Wisconsin

Lewis Ralph Jones F 1910 Madison, Wis.
Professor of Plant Pathology, University of Wisconsin

Chauncey Juday CF 1907 (Colorado CF 1905) Madison, Wis.
Biologist, Wisconsin State Natural History Survey

Louis Kahlenberg F 1907*† Madison, Wis.
Professor of Chemistry, University of Wisconsin

William Herbert Kempfer A 1909 (Michigan G 1906) Madison, Wis.
Assistant, Forest Products Laboratory

William Spauling Kinne F 1911 Madison, Wis.
Assistant Professor of Structural Engineering, University of Wisconsin

Charles Townsend Kirk A 1909* New York City
Assistant Professor of Geology, Normal College of City of New York

David Klein F 1908 Madison, Wis.
Instructor in Chemistry, University of Wisconsin

Alfred Edward Koenig F 1910 Madison, Wis.
Instructor in Chemistry, University of Wisconsin

William F. Koelker F 1907
(Deceased 1911)

Otto Louis Kowalke F 1909 Madison, Wis.
Assistant Professor of Chemical Engineering, University of Wisconsin

Francis Craig Krauskopf F 1909 Madison, Wis.
Assistant Professor of Chemistry, University of Wisconsin

Edward Kremers F 1907*† Madison, Wis.
Professor and Director of Course in Pharmacy, University of Wisconsin

Frederick William Kressman G 1911 Madison, Wis.
Chemist, Forest Products Laboratory

Alfred Emil Kundert A 1909 Madison, Wis.
Chemist, Dairy and Food Commission of Wisconsin

Charles Kenneth Leith CF 1907*† Madison, Wis.
Professor of Geology, University of Wisconsin

Victor Lenher CF 1907* Madison, Wis.
Professor of Chemistry, University of Wisconsin

Charles Edward Lewis A 1907 (Cornell G 1904) Orono, Me.
Associate Plant Pathologist, Experiment Station

Jesse Talbot Littleton, Jr A 1909* Ann Arbor, Mich.
Instructor in Physics, University of Michigan

Arthur Solomon Loevenhart F 1909* Madison, Wis.
Professor of Pharmacology and Toxicology, University of Wisconsin

John Givan Davis Mack CF 1907 (Cornell A 1888) Madison, Wis.
Professor of Machine Design, University of Wisconsin

Charles August Mann F 1911 Madison, Wis.
Instructor in Chemical Engineering, University of Wisconsin

Herman William March F 1907 (Michigan G 1905) Madison, Wis.
Assistant Professor of Mathematics, University of Wisconsin

William Stanley Marshall F 1907* Madison, Wis.
Associate Professor of Entomology, University of Wisconsin

Lawrence Martin F 1908 Madison, Wis.
Assistant Professor of Geology, University of Wisconsin

Max Mason F 1908* Madison, Wis.
Professor of Mathematical Physics, University of Wisconsin

Joseph Howard Mathews F 1909 Madison, Wis.
Assistant Professor of Physical Chemistry, University of Wisconsin

Edward Rose Maurer F 1907 † Madison, Wis.
Professor of Mechanics, University of Wisconsin

Russell Smith McBride F 1908 (Minnesota U 1908) Madison, Wis.
Assistant in Chemistry, University of Wisconsin

George Vest McCauley G 1908 Madison, Wis.

Elmer Verner McCollum F 1907 (Kansas U 1902) Madison, Wis.
Associate Professor of Agricultural Chemistry, University of Wisconsin

Andrew Friedley McLeod CF 1907 (Chicago G 1905) Beloit, Wis.
Instructor in Chemistry, Beloit College

Daniel Webster Mead CA 1907 Madison, Wis.
Professor of Engineering, University of Wisconsin

Warren Judson Mead F 1908 Madison, Wis.
Assistant Professor of Geology, University of Wisconsin

Walter Joseph Meek F 1908* Madison, Wis.
Assistant Professor of Physiology, University of Wisconsin

Irving E Melhus F 1911 Madison, Wis.
Instructor in Plant Pathology, University of Wisconsin

Charles Elwood Mendenhall F 1907* Madison, Wis.
Professor of Physics, University of Wisconsin

Eric Rexford Miller F 1909* Madison, Wis.
Lecturer in Meteorology, University of Wisconsin

William Snow Miller CF 1907* Madison, Wis.
Associate Professor of Anatomy, University of Wisconsin

Herbert Fisher Moore CA 1906 (Cornell U 1909) Urbana, Ill.
Assistant Professor of Mechanics, University of Illinois

Seth Enoch Moody CA 1906 (Yale G 1906) St. Louis, Mo.
Assistant City Chemist

Fred Ludwig Musback G 1911 Madison, Wis.
Field Man, Reconnaissance Work, Wisconsin Soils Survey

Walter Nebel F 1911 Madison, Wis.
Assistant in Chemistry, University of Wisconsin

Edgar William Olive CA 1907* Brookings, S. D.
Professor of Botany, South Dakota Agricultural College

James Bertram Overton CF 1907* Madison, Wis.
Assistant Professor of Botany, University of Wisconsin

William David Pence F 1907† Madison, Wis.
Professor of Railway Engineering, University of Wisconsin

James David Phillips F 1907 Madison, Wis.
Assistant Dean, Professor of Drawing, University of Wisconsin

John Reese Price F 1909 Madison, Wis.
Assistant Professor of Electrical Engineering, University of Wisconsin

Mazÿck Porcher Ravenel F 1908*† Madison, Wis.
Director of State Hygienic Laboratory, University of Wisconsin

Louis Ehrhart Reber F 1909† Madison, Wis.
Dean of Extension Division, University of Wisconsn

Arthur William Richter CF 1906 Madison, Wis.
Professor of Experimental Engineering, University of Wisconsin

Ruric Charles Roark G 1910 Madison, Wis.

John Ransom Roebuck F 1908 Madison, Wis.
Instructor in Physics, University of Wisconsin

Harry Luman Russell F 1907*† Madison, Wis.
Dean of College of Agriculture, University of Wisconsin

James Glossbrenner Sanders F Madison, Wis.
Assistant Professor of Economic Entomology, University of Wisconsin

Emil Peter Sandsten CF 1907* (Minnesota G 1898) Madison, Wis.
Professor of Horticulture, University of Wisconsin

Herbert Brooks Sanford F 1911 Madison, Wis.
Instructor in Electrical Engineering, University of Wisconsin

Leon Irwin Shaw A 1909 (Syracuse G 1908) Evanston, Ill.
Instructor in Chemistry, Northwestern University

Frederick Lafayette Shinn CA 1907 (Indiana F 1905) Eugene, Ore.
Assistant Professor of Chemistry, University of Oregon

Ernest Brown Skinner F 1907* Madison, Wis.
Associate Professor of Mathematics, University of Wisconsin

Charles Sumner Slichter CF 1907*† Madison, Wis.
Professor of Applied Mathematics, University of Wisconsin

Alpheus Wilson Smith A 1906 (Ohio F 1909) Columbus, Ohio
Assistant Professor of Physics, Ohio State University

Bertram Garner Smith A 1909* New York City
Graduate Student, Columbia University

Edwin Raymond Smith CA 1907 (Ilinois U 1905) State College, Pa.
Assistant Professor of Mathematics, Pennsylvania State College

Leonard Sewall Smith F 1907* Madison, Wis.
Associate Professor of Engineering, University of Wisconsin

Benjamin Warner Snow CF 1907* (Cornell A 1888) Madison, Wis.
Professor of Physics, University of Wisconsin

Daniel Starch F 1906* Madison, Wis.
Instructor in Psychology, University of Wisconsin

Harry Steenbock F 1910 Madison, Wis.
Instructor in Agricultural Chemistry, University of Wisconsin

Edward Steidtmann F 1908 Madison, Wis.
Assistant Professor of Geology, University of Wisconsin

Arlow Burdette Stout A 1910 New York City
Director of Laboratories, Botanical Garden

Charles William Stoddart A 1907 State College, Pa.
Professor of Chemistry, Pennsylvania State College

Henry Earl Surface F 1911 Madison, Wis.

Albert Hoyt Taylor A 1907 Grand Forks, N. D.
Professor of Physics, University of North Dakota

Earle Melvin Terry F 1909* Madison, Wis.
Assistant Professor of Physics, University of Wisconsin

Halsten Joseph Berford Thorkelson F 1907 Madison, Wis.
Associate Professor of Steam Engineering, University of Wisconsin

Carl Clapp Thomas F 1908*† (Cornell G 1895) Madison, Wis.
Professor of Steam Engineering, University of Wisconsin

Frederick Turville Thwaites G 1909 Madison, Wis.

Charles Austin Tibbals, Jr A 1908 Chicago, Ill.
Assistant Professor of Chemistry, Armour Institute of Technology

Joseph Douglass Trueman G 1910 Madison, Wis.

Edward Joseph Tully G 1910 Madison, Wis.
Chemist, State Hygienic Laboratory, University of Wisconsin

Frederick Eugene Turneaure CF 1907*† (Cornell U 1889) Madison, Wis.
Dean, College of Engineering, University of Wisconsin

Anthony Lispenhard Underhill A 1909* Minneapolis, Minn.
Assistant Professor of Mathematics, University of Minnesota

Charles Richard Van Hise CF 1907*† Madison, Wis.
President, University of Wisconsin

Edward Burr Van Vleck F 1907*† Madison, Wis.
Professor of Mathematics, University of Wisconsin

Charles T Vorhies A 1907 Salt Lake City, Utah
Professor of Zoology, Utah State University

Joseph Henry Vosskuehler CF 1907 (Ohio U 1900) Madison, Wis.
Assistant Professor of Machine Design, University of Wisconsin

George Wagner CF 1907* (Kansas U 1899) Madison, Wis.
Assistant Professor of Zoology, University of Wisconsin

Harlow Leslie Walster F 1911 Madison, Wis.
Instructor in Soils, University of Wisconsin

James Henri Walton F 1907* (Illinois CF 1903) Madison, Wis.
Associate Professor of Chemistry, University of Wisconsin

James Webster Watson F 1911 Madison, Wis.
Assistant Professor of Electrical Engineering, University of Wisconsin

Oliver Patterson Watts F 1907 Madison, Wis.
Assistant Professor of Applied Electro-chemistry, University of Wisconsin

Samuel Weidman F 1907* Madison, Wis.
Geologist of the State Geological Survey, University of Wisconsin

Howard Frederick Weiss G 1905 Madison, Wis.
Assistant Director, Forest Products Laboratory

Ray Hughes Whitbeck F 1909 Madison, Wis.
Assistant Professor of Physiography and Geography

Andrew Robinson Whitson CF 1907* Madison, Wis.
Professor of Soils, University of Wisconsin

Wendell Garrett Wilcox F 1907 (Syracuse G 1906) Madison, Wis.
Instructor in Chemistry, University of Wisconsin

Alexander Newton Winchell F 1908* Madison, Wis.
Professor of Mineralogy and Petrology, University of Wisconsin

Morton Owen Withey F 1910 Madison, Wis.
Assistant Professor of Mechanics, University of Wisconsin

Henry Charles Wolff F 1911 Madison, Wis.
Assistant Professor of Mathematics, University of Wisconsin

Fritz Wilhelm Woll F 1907*† Madison, Wis.
Professor of Agricultural Chemistry, University of Wisconsn

Otto Julius Zobel G 1910 Madison, Wis.
Fellow in Physics, University of Wisconsin

WASHINGTON CHAPTER

University of Washington, Seattle, Washington

Charter Dated January 4, 1907 Chapter Installed April 24, 1907

HISTORICAL SKETCH

On March 15, 1906, the Science Club, composed of twenty-six members of the faculty of the University of Washington, the state university located at Seattle, Washington, applied to the Society of Sigma Xi for a charter. The petition was acted upon favorably and President David Starr Jordan, of Leland Stanford, Junior, University installed the Chapter and presented the charter, his address on that occasion being upon The Human Harvest.

In June, 1910, Professor Alexander Smith of the University of Chicago delivered the annual address.

M. R.

OFFICERS FOR 1911–12

President.....Elmer James McCaustland
Vice-President.....John Weinzirl
Recording Secretary.....Robert Evstafieff Rose
Corresponding Secretary.....Herman Campbell Stevens
Treasurer.....George Samuel Wilson
Councilor.....Henry Landes

MEMBERSHIP ROLL

Eric Temple Bell G 1908 Eureka, Cal.

Henry Kreitzer Benson CF 1907 (Columbia G 1907) Seattle, Wash.
Associate Professor of Chemistry, University of Washington

Nathan Doud Blair U 1911 Schenectady, N. Y.
Testing Engineer, General Electric Company

Henry Lee Bowlby CF 1907 Seattle, Wash.
Instructor in Civil Engineering, University of Washington

Henry Louis Brakel CF 1907 Seattle, Wash.
Instructor in Physics, University of Washington

Irvin Walter Brandel CF 1907 Seattle, Wash.
Chemist in Commercial Work, Brandel Chemical Company

Edward Everett Bugbee F 1907 Boston, Mass.
Assistant Professor of Metallurgy, Massachusetts Institute of Technology

Horace Greeley Byers CF 1907* Seattle, Wash.
Professor of Chemistry, University of Washington

Lois Clark G 1910 Burlington, Wash.
Teacher of Science, High School

Anna Edith Corey (Mrs Lester Sweet) — G 1907 — Skaguay, Alaska
Principal of High School

Magnus Tate Crawford — U 1907 — Seattle, Wash.
Electrical Engineer

William Maurice Dehn — F 1908 (Illinois CF 1903) — Seattle, Wash.
Assistant Professor of Chemistry, University of Washington

Edward Harold Denny — U 1911 — Seattle, Wash.
Engineering Department, University of Washington

Albert Haskin Dewey — U 1909 — Seattle, Wash.
Instructor in Pharmacy, University of Washington

Everett Owen Eastwood — CF 1907 — Seattle, Wash.
Professor of Mechanical Engineering, University of Washington

Louis Henry Fee — G 1909 — Everett, Wash.
Teacher of Science, Everett High School

Charles Reinhard Fettke — U 1910 — New York City
Assistant in Geology, Columbia University

Theodore Christian Frye — CF 1907* — Seattle, Wash.
Professor of Botany, University of Washington

Guy Flaherty — U 1909 — Roslyn, Wash.
Engineer

Almon Homer Fuller — CF 1907 — Seattle, Wash.
Dean of College of Engineering, University of Washington

Charles Henry Gordon — CF 1907*† (Nebraska F 1902) — Knoxville, [Tenn.
Professor of Geology, University of Tennessee

James Edward Gould — CF 1907 — Seattle, Wash.
Associate Professor of Mathematics, University of Washington

Lars Olai Grondahl — F 1909 — Seattle, Wash.
Instructor in Physics, University of Washington

Bessie Eleanor Crowe (Mrs Frank Marion Morrison) — CG 1907 (Kansas U 1897) — Seattle, Wash.

Eliot Snell Hall — F 1907 (Chicago G 1905) — Amherst, Mass.
Associate Professor of Chemistry, Amherst College

James Harold Hance — U 1908 — Washington, D. C.
Assistant Geologist, United States Geological Survey

Charles William Harris — F 1907 (Cornell U 1905) — Seattle, Wash.
Instructor in Civil Engineering, University of Washington

Raymond Allen Hopkins — U 1910 — Seattle, Wash.
Electrical Engineer

Arthur Day Howard — F 1909 — Seattle, Wash.
Assistant Professor of Zoology, University of Washington

Alonzo Keyt Isham — CF 1906 — Seattle, Wash.
Consulting Engineer

Charles Willis Johnson — CF 1907* (Michigan CG 1903) — Seattle, Wash.
Dean, College of Pharmacy, University of Washington

Frank Edward Johnson — CF 1907 (Minnesota U 1900) — Seattle, Wash.
Instructor in Electrical Engineering, University of Washington

Sarah Edna Kahan G 1907 Seattle, Wash.
Instructor in Chemistry, Broadway High School

Enoch Karrer U 1911 Seattle, Wash.
Physics Department

Sebastian Karrer U 1911 Seattle, Wash.
Physics Department

Trevor Kincaid CF 1907† Seattle, Wash.
Professor of Zoology, University of Washington

Kurt Friedrich Johannes Kirsten U 1909 Seattle, Wash.
Electrical Engineer

Henry Granger Knight A 1908 Laramie, Wyo.
Director of Experiment Station, University of Wyoming

Henry Landes CF 1907*† Seattle, Wash.
Professor of Geology, University of Washington

Margaret Mae MacLachlan U 1908 Seattle, Wash.
Teacher of Chemistry, Queen Anne High School

Carl Edward Magnusson CF 1907 (Minnesota U 1896) Seattle, Wash.
Professor of Electrical Engineering, University of Washington

Charles Earl Mallory U 1909 Seattle, Wash.
Instructor in Electrical Engineering, University of Washington

Elmer James McCaustland F 1908 (Cornell U 1897) Seattle, Wash.
Professor of Municipal Engineering, University of Washington

John Merritt McGee G 1910 Laramie, Wyo.
Assistant State Chemist, University of Wyoming

Harry Levi Mead CF 1907 (Columbia U 1905) Avino, Mexico
Superintendent, Avino Mines of Mexico

Frank Garner Miller F 1908*† (Nebraska F 1906) Seattle, Wash.
Professor of Forestry, University of Washington

Charles Church More CF 1907 Seattle, Wash.
Professor of Civil Engineering, University of Washington

Robert Edouard Moritz CF 1906* (Nebraska F 1899) Seattle, Wash.
Professor of Mathematics, University of Washington

Bessie Eleanor Growe Morrison CG 1907 (Kansas U 1897) Seattle, Wash.
(Mrs Frank Marion Morrison)

Frank Marion Morrison CF 1907 Seattle, Wash.
Assistant Professor of Mathematics, University of Washington

Frederick Arthur Osborn CF 1907* (Michigan G 1907) Seattle, Wash.
Professor of Physics, University of Washington

H L Osterud U 1909 New York City
Fellow in Zoology, Columbia University

Arthur Baker Stanley Pope U 1908 Ellensburg, Wash.
Principal of High School

Charles William Prentiss CF 1907* Chicago, Ill.
Assistant Professor of Anatomy, Northwestern University Medical School

John Charles Rathbun U 1908 Tacoma, Wash.
Engineer

Milnor Roberts CF 1907 Seattle, Wash.
Dean of School of Mines, University of Washington

Robert Evstafieff Rose F 1909 Seattle, Wash.
Assistant Professor of Chemistry, University of Washington

Lloyd Leroy Smail U 1911 Seattle, Wash.
Fellow in Mathematics, University of Washington

Herman Campbell Stevens CF 1907* (Cornell G 1903) Seattle, Wash.
Assistant Professor of Psychology, University of Washington

George Robert Stranberg U 1911 Seattle, Wash.
Instructor in Civil Engineering, University of Washington

Anna Edith Corey Sweet G 1907 Skaguay, Alaska
(Mrs Lester Sweet) Principal of High School

Rolf Thelen CF 1907 (California U 1905) Washington,
United States Forest Service [D. C.

William Thompson U 1908 Pittsburgh, Pa.
Chemist, Pittsburgh Testing Laboratories, Ltd

Harlan Leo Trumbull U 1907 Chicago, Ill.
Fellow in Kent Chemical Laboratory, University of Chicago

Walter Calvin Wagner U 1907 Seattle, Wash.
Instructor in Electrical Engineering, University of Washington

Charles Edwin Weaver F 1908 (California G 1905) Seattle, Wash.
Instructor in Geology, University of Washington

John Weinzirl F 1907 Seattle, Wash.
Associate Professor of Bacteriology, University of Washington

George Winchester F 1906 (Chicago G 1905) Washington, Pa.
Professor of Physics, Washington and Jefferson College

Hugo Winkenwerder F 1910 Seattle, Wash.
Associate Professor of Forestry, University of Washington

George Samuel Wilson F 1907 (Nebraska G 1906) Seattle, Wash.
Assistant Professor of Mechanical Engineering, University of Washington

WORCESTER CHAPTER

Worcester Polytechnic Institute, Worcester, Massachusetts

Charter Dated April 18, 1908 Chapter Installed May 7, 1908

HISTORICAL SKETCH

The Worcester Chapter was installed by President Edward L. Nichols, who delivered on that occasion a public address, his subject being Engineering a By-Product of Science. Eighteen members of the Faculty and instructional force were charter members.

Sixteen new members were initiated on June 12, and at this time the annual address was delivered by Professor Arthur G. Webster, of Clark University, the subject of which was The Object of Scientific Research.

In 1909, at a regular meeting of the Chapter on April 29, twenty-one new members were initiated. On the evening of June 9, at the annual meeting of the Chapter, an address was delivered by Professor George F. Swain, Director of the Department of Civil Engineering, Massachusetts Institute of Technology, on the subject of Research in Engineering.

Fifteen new members were initiated on April 27, 1910. The address at the annual meeting of June 8, following, was delivered by Doctor A. D. Risteen, taking as his subject What Things are Worth Doing?

A. D. B.

OFFICERS FOR 1911–12

President.....George Henry Haynes
Vice-President.....Walter Louis Jennings
Recording Secretary.....Alton Lincoln Smith
Corresponding Secretary.....Arthur Dexter Butterfield
Treasurer.....Clarence Albert Pierce
Councilor.....Arthur Woolsey Ewell

MEMBERSHIP ROLL

Erwin Avery Adams U 1908 Toronto, Canada
Canadian Fairbanks-Morse Company, Ltd.

Leon George Adams U 1909 Brooklyn, N. Y.
Inspector, New York, New Haven and Hartford Railroad

Charles Metcalf Allen CF 1908* Worcester, Mass.
Professor of Hydraulic Engineering, Worcester Polytechnic Institute

Alfred Leroy Atherton U 1911 Pittsburgh, Pa.
Student Apprentice, Westinghouse Electric and Manufacturing Company

Carlyle Adams Atherton U 1910 Pittsburgh, Pa.
Student Apprentice, Westinghouse Electric and Manufacturing Company

Walter Irving Barrows U 1909 Milton, N. H.
Designing Engineer, Reinforced Concrete Construction

Edwin Donald Beach U 1911 Orange, N. J.
Inspector, Plant Department, Western Union Telegraph Company

William Warren Bird CF 1908* Worcester, Mass.
Professor of Mechanical Engineering, Worcester Polytechnic Institute

Frederic Bonnet, Jr CF 1908* Worcester, Mass.
Assistant Professor of Chemistry, Worcester Polytechnic Institute

Arthur Dexter Butterfield F 1909* Worcester, Mass.
Professor of Mathematics, Worcester Polytechnic Institute

Daniel Francis Calhane F 1909 Worcester, Mass.
Instructor in Industrial and Electro-chemistry, Worcester Polytechnic

David Ellsworth Carpenter U 1911 Pittsburgh, Pa.
Student Apprentice, Westinghouse Electric and Manufacturing Company

Albert Theodore Childs U 1908 Orono, Me.
Assistant Professor, Electrical Engineering, University of Maine

Robert Titcomb Cole U 1908 Buffalo, N. Y.
Engineer, Rockwood Sprinkler Company

Levi Leonard Conant CF 1908*† Worcester, Mass.
Acting President and Professor of Mathematics, Worcester Polytechnic

Harold Perry Conklin U 1911 Hartford, Conn.
Inspector, Factory Insurance Association

Lyman Francis Copeland A 1908 Chicago, Ill.
Bridge Department, Illinois Central Railroad

Herbert Kimball Cummings U 1910 Worcester, Mass.
Instructor in Physics, Worcester Polytechnic Institute

Philip Stone Cushing U 1911 Cambridge, Mass.
Graduate Student, School of Applied Science, Harvard University

Christian Dantsizen U 1910 Schenectady, N. Y.
Research Department, General Electric Company

William Austin Darrah U 1908 Pittsburgh, Pa.
Electrical Engineer, Westinghouse Electric and Manufacturing Company

Royal William Davenport U 1908 Portland, Ore.
With United States Geological Survey

Lewis Davis U 1911 Boston, Mass
Graduate Student in Chemistry, Massachusetts Institute of Technology

Alexander Wilmer Duff CF 1908*† Worcester, Mass.
Professor of Physics, Worcester Polytechnic Institute

Edmund Arthur Engler CF 1908*† St. Louis, Mo.
Washington University

Arthur Woolsey Ewell CF 1908* Worcester, Mass.
Professor of Physics, Worcester Polytechnic Institute

Sidney Woods Farnsworth U 1908 Pittsburgh, Pa.
General Engineer, Westinghouse Electric and Manufacturing Company

Lyle Gordon Fear U 1909 Butte, Mont.
With Westinghouse Electric and Manufacturing Company

Elmer Henry Fish G 1909 Worcester, Mass.
Manager, Worcester School of Trades

Charles Samuel Frary G 1908 Boston, Mass.
Bay State Belting Company

Arthur Willard French CF 1908*† Worcester, Mass.
Professor of Civil Engineering, Worcester Polytechnic Insttute

Howard Fowler Fritch U 1910 Boston, Mass.
Bay State Street Railway Company, Time Table Department

David Lamprey Gallup F 1910 Worcester, Mass.
Assistant Professor of Gas Engineering, Worcester Polytechnic Institute

Ernest Knight Gladding U 1910 Du Pont, Wash.
With E. I. Du Pont de Nemours Powder Company

Robert Hutchins Goddard U 1908 Worcester, Mass.
Honorary Fellow in Physics, Clark University

Charles Francis Goldthwait U 1909 Webster, Mass.
Chemist with S. Slater and Sons, Inc.

Arthur Greenwood U 1909 Holyoke, Mass.
With Coburn Trolley Track Manufacturing Company

Romeo Arthur Grisé U 1910 Taunton, Mass.
With Weir Stone Company

Edward Lee Hancock F 1910
(Deceased 1911)

Charles Brigham Harrington G 1909 Newtonville, Mass.
Head of Science Department, Newton Technical High School

John Chapin Harvey U 1908 Worcester, Mass.
Hydraulic Engineer, Worcester Polytechnic Institute

George Henry Haynes CF 1908† Worcester, Mass.
Professor of Economics and Political Science, Worcester Polytechnic

Fred Leland Hewes U 1910 Boston, Mass.
With George A. Fuller Company, General Contractors

Howard Chapin Ives CF1908*† Worcester, Mass.
Professor of Railroad Engineering, Worcester Polytechnic Institute

Walter Louis Jennings CF 1908*† Worcester, Mass.
Professor of Organic Chemistry, Worcester Polytechnic Institute

Harold Merriam King U 1910 Lynn, Mass.
Student Apprentice, General Electric Company

Leonard Parker Kinnicutt CF 1908*†
(Deceased 1911)

George Y Lancaster, Jr G 1909 New York City
Inspector, New York Board of Fire Underwriters

Horace Zebina Landon U 1911 East Walpole, Mass.
With F. W. Bird and Son

Walter Fred Lawley U 1908 Barksdale, Wis.
Acid Inspector, E. I. Du Pont de Nemours Powder Company

Charles Thompson Leigh U 1911 Casa Grande, Ariz.
Land Developing

Donald Howe Mace U 1909 Pittsburgh, Pa.
Engineer, Legal Department, Westinghouse Electric and Manufacturing Co.

George Francis Martin U 1910 Worcester, Mass.
With Eastern Bridge and Structural Company

Raymond Kurtz Morley 1911 Urbana, Ill.
Instructor in Mathematics, University of Illinois

Albert Armstrong Nims U 1908 Rochester, N. Y.
Electrical Engineer, Murphy Electricity Rectifier Company

George Robert Olshausen CF 1908* (Cornell F 1904) Newark, N. J.
Department of Physics, Princeton University

Riojo Onuki U 1910 Yokosha Naval Dock Yard, Japan
Engineering Department

George Norman Palser U 1909 Worcester, Mass.
Draftsman, Eastern Bridge and Structural Company

Joseph Oliver Phelon CF 1908 (Cornell G1901) Worcester, Mass.
Professor of Electrical Engineering, Worcester Polytechnic Institute

Clarence Albert Pierce F 1911 (Cornell 1908) Worcester, Mass.
Assistant Professor of Theoretical Electrical Engineering

Carleton Allen Read F 1909 Worcester, Mass.
Professor of Steam Engineering, Worcester Polytechnic Institute

Alexander Hugh Reid U 1911 Milton, N. H.
Draftsman with I. W. Jones, Engineer

John Allen Remon U 1909 Chicago, Ill.
Assistant Traffic Chief, American Telephone and Telegraph Company

Albert Sutton Richey CF 1908 Worcester, Mass.
Professor of Electric Railway Engineering, Worcester Polytechnic Institute

Harold James Riley U 1909 Montreal, Canada
Law Student, Richards, Affleck and Company

Philip Jones Rowell U 1908 Tacoma, Wash.
Office of Engineer of Maintenance of Way, Northern Pacific Railroad Company

Francis William Roys U 1909 Worcester, Mass.
Instructor, Department of Mechanical Engineering, Worcester Polytechnic

George Herbert Ryan U 1908 Millbury, Mass.

Alton Lincoln Smith CF 1908 Worcester, Mass.
Professor of Drawing and Machine Design, Worcester Polytechnic Institute

Harold Babbitt Smith CF 1908*† (Cornell U 1891) Worcester, Mass.
Professor of Electrical Engineering, Worcester Polytechnic Institute

Stanwood Willston Sparrow U 1911 Chicopee Falls, Mass.
Draftsman, Stevens-Duryea Company

Ralph Edgar Spaulding U 1909 Suffield, Conn.
Partner, E. N. and R. E. Spaulding, Engineering Contractors

Charles Childs Steere U 1909 Cincinnati, Ohio
Assistant Chemist and Bacteriologist, Filtration Plant

Lewis Chester Stevens U 1911 Worcester, Mass.
With F. O. Stevens, Manufacturer

Ray Lewis Stinchfield U 1908 Washington, D. C.
Assistant Examiner, United States Patent Office

Robert Chauncy Sweetser F 1909 , Worcester, Mass.
Assistant Professor of Analytical Chemistry, Worcester Polytechnic Institute

Ray Howard Taber U 1909 Pittsburgh, Pa.
Engineer, Westinghouse Electric and Manufacturing Company

Francis Sylvestre Twomey U 1910 Boston, Mass.
American Telephone and Telegraph Company

Wallis Cowl Watson U 1910 Schenectady, N. Y.
Student Apprentice, General Electric Company

Laurence Goddard Wesson U 1910 Washington, D. C.
Chemist, Bureau of Standards

Ralph Delano Whitmore U 1909 Pekin, China
Teacher of Manual Arts, Ching Hua College

Joseph Dimock Williams C 1908 (Yale U 1904) Fort Plain, N. Y.
Barge Canal Office

John Edward Woodbury U 1908 Worcester, Mass.
Vice-President, Woodbury and Company

PURDUE CHAPTER

PURDUE UNIVERSITY, LAFAYETTE, INDIANA

Charter Dated April 28, 1909 Chapter Installed December 21, 1909

HISTORICAL SKETCH

The formal petition for the establishment of a chapter of Sigma Xi at Purdue University was filed April 27, 1908, and bore the signatures of twenty-one members of the faculty, twelve of whom had been members of the organization in other institutions. The charter was issued April 28, 1909, and the Chapter was formally installed by Professor Henry B. Ward on December 21, 1909. Previous to the installation of the Chapter, four of those signing the original petition had severed their connection with the University. Since its organization the Purdue Chapter has maintained two public meetings each semester, one of the meetings being addressed by a member of the local Chapter, the other by a member from some other institution.

S. C.

PUBLICATIONS

By-Laws of the Purdue University Chapter of the Society of the Sigma Xi. pp. 4.

OFFICERS FOR 1911-12

President.....PERCY NORTON EVANS
Vice-President.....OTTO FRED HUNZIKER
Recording Secretary.....CHARLES FRANCIS HARDING
Corresponding Secretary.....STANLEY COULTER
Treasurer.....RICHARD GUSTAVUS DUKES
Councilor.....WILLIAM KENDRICK HATT

MEMBERSHIP ROLL

Joseph Charles Arthur CF 1909*† (Cornell G 1888) Lafayette, Ind.
Professor of Vegetable Physiology, Purdue University

Charles Henry Benjamin CF 1909*† (Case CF 1904) Lafayette, Ind.
Dean of Schools of Engineering, Purdue University

Earl Gordon Bill F 1911 (Yale G 1906) Lafayette, Ind.
Instructor in Mathematics, Purdue University

Frederick John Breeze U 1910 Lafayette, Ind.
Instructor in Forestry, Purdue University

Severance Burrage F 1909 Lafayette, Ind.
Professor of Sanitary Science, Purdue University

Albert Edward Caswell F 1911 (Stanford G 1911) Lafayette, Ind.
Instructor in Physics, Purdue University

Wilbur Andrew Cochel CF 1909 (Missouri U 1905) State College, Pa.
Professor of Agriculture, Pennsylvania State College

Stanley Coulter CF1909*† Lafayette, Ind.
Dean of School of Science, Professor of Biology, Purdue University

Robert Alexander Craig F 1910 Lafayette, Ind.
Professor of Veterinary Science, Purdue University

Richard Gustavus Dukes F 1910 (Cornell U 1896) Lafayette, Ind.
Professor of Applied Mechanics, Purdue University

David Christie Duncan F 1911 (Michigan U 1911) Lafayette, Ind.
Assistant Instructor in Physics, Purdue University

Gilbert Turner Dunklin U 1911 Altoona, Pa.
Chief Engineer, George Cutter Company

Oscar Norton Edmondson U 1910 South Bend, Ind.
Designer, Mechanical Engineer's Office, Pennsylvania Railway Company

John Benjamin Edmondson U 1911 Lafayette, Ind.
Assistant in Soil Work, Purdue University

John Walter Esterline F 1910 Lafayette, Ind.
President and Manager, Esterline Company

Percy Norton Evans CF 1909 Lafayette, Ind.
Professor of Chemistry, Purdue University

Ervin Sidney Ferry CF 1909*† (Cornell U 1889) Lafayette, Ind.
Professor of Physics, Purdue University

James Burgess Fitch U 1910 Manhattan, Kan.
Assistant in Dairying, Kansas State Agricultural College

Frederick Driggs Fuller F 1911 Lafayette, Ind.
(Chief Deputy) State Chemist, Agricultural Experiment Station

Michael Joseph Golden CF 1909 Lafayette, Ind.
Professor of Practical Mechanics, Purdue University

Arthur Goss CF 1909 Lafayette, Ind.
Director of Experiment Station, Purdue University

Frank Gray U 1911 Madison, Wis.
Assistant in Physics, University of Wisconsin

Charles Francis Harding CF 1909* Lafayette, Ind.
Professor of Electrical Engineering, Purdue University

Oliver Morton Harrison U 1911 Lafayette, Ind.
Assistant in Chemistry, Purdue University

William Kendrick Hatt CF 1909*† (Cornell G 1891) Lafayette, Ind.
Professor of Civil Engineering, Purdue University

Benjamin Hartley Hewit U 1911 Lafayette, Ind.
Student in Civil Engineering, Purdue University

James David Hoffman F 1910 Lafayette, Ind.
Professor of Engineering Design, Purdue University

Herbert Andrew Hopper CF 1909 (Cornell U 1903) Ithaca, N. Y.
Dairy Farming

Harold Allen Houston U 1911 Urbana, Ill.
Fellow in Engineering, University of Illinois

Otto Fred Hunziker F 1909 (Cornell G 1901) Lafayette, Ind.
Chief of Dairy Department, Purdue University

Agassiz Travers Hutchins U 1910 Denver, Col.
With Denver Gas and Electric Company

Dean Morreau Jackman U 1911 Washington, D. C.
Assistant in Chemistry, Bureau of Standards

Arthur Taber Jones F 1911 Worcester, Mass.
Fellow in Physics, Clark University

William James Jones, Jr F 1910 Lafayette, Ind.
Professor of Agricultural Chemistry, Purdue University

Alfred Monroe Kenyon F 1910 Lafayette, Ind.
Professor of Mathematics, Purdue University

Frank Dunn Kern CF 1909 (Iowa U 1904) Lafayette, Ind.
Associate Botanist, Purdue Experiment Station

Willard Alfred Knapp CF 1909 (Illinois U 1907) Lafayette, Ind.
Instructor in Engineering, Purdue University

Harry Joseph Krueper U 1910 Fort Wayne, Ind.
Engineer, Pennsylvania Railroad Company

Llewellyn V Ludy CF 1909 Madison, Wis.
Acting Professor of Engineering, University of Wisconsin

Edward Garfield Mahin F1910 Lafayette, Ind.
Associate Professor of Chemistry, Purdue University

William Marshall F 1911 Lafayette, Ind.
Associate Professor of Mathematics, Purdue University

Charles Stephen McCarthy U 1911 Lafayette, Ind.
Student in Civil Engineering, Purdue University

Albert McWayne U 1910 Chicago, Ill.
With Holabird and Roche, Architects

Louis Mitchell U 1910 (Syracuse F 1910) Syracuse, N. Y.
Instructor in Civil Engineering, Syracuse University

Charles Ruby Moore F 1910 Lafayette, Ind.
Assistant Professor of Electrical Engineering, Purdue University

Joseph Oskant F 1911 (Missouri U 1911) Lafayette, Ind.
Assistant Horticulturist, Purdue University

Alfred Peter Poorman F 1909 (Colorado F 1908) Lafayette, Ind.
Assistant Professor of Mechanics, Purdue University

Ray Edgar Pumphrey U 1911 Lafayette, Ind.
Engineer, Lafayette Electric and Manufacturing Company

Paul Linch Roberts U 1910 Lafayette, Ind.
Assistant in Dairying, Purdue University

Lewis Dow Rowell F 1911 (Case F 1911) Lafayette, Ind.
Assistant Professor of Electrical Engineering, Purdue University

Robert Lemuel Sackett F 1910 Lafayette, Ind.
Professor of Engineering, Purdue University

Herbert Henry Scofield F 1911 Lafayette, Ind.
Assistant Professor of Testing Materials, Purdue University

Glenn Alfred Shook F 1911 Urbana, Ill.
Instructor in Physics, University of Illinois

John Harrison Skinner CF 1909 Lafayette, Ind.
Dean of School of Agriculture, Purdue University

Harold Ryland Smalley U 1911 Lafayette, Ind.
Assistant Chemist, Experiment Station, Purdue University

Albert Smith F 1910 Lafayette, Ind.
Professor of Structural Engineering, Purdue University

Albert Bessey Smith CF 1909 (Nebraska G 1901) Chicago, Ill.
With Automatic Telephone Company

Charles Marquis Smith F 1910 Lafayette, Ind.
Assistant Professor of Physics, Purdue University

Temple Clifford Smith U 1910 Newark, N. J.
New York Telephone Company

George Spitzer F 1910 Lafayette, Ind.
Dairy Chemist, Purdue University

Winthrop Ellsworth Stone CF 1909 Lafayette, Ind.
President, Purdue University

Oliver Perkins Terry F 1911 Lafayette, Ind.
Assistant Professor of Physiology, Purdue University

Oswald Albert Tislow U 1911 Louisville, Ky.
Draftsman, Louisville Bridge and Iron Company

Alanson Niles Topping CF 1909 (Kansas U 1894) Lafayette, Ind.
Associate Professor of Electrical Engineering, Purdue University

Guy Alwyn Wainwright U 1911 Lafayette, Ind.
Student in Engineering, Purdue University

Clarence Abiathar Waldo CF 1909*† (Union F 1890) St. Louis, Mo.
Professor of Mathematics, Washington University

Luther Cornelius Weeks CF 1909 (Yale CG 1903) Lafayette, Ind
Instructor in Mathematics, Purdue University

Jacob Westlund CF 1909* (Yale F 1897) Lafayette, Ind.
Professor of Mathematics, Purdue University

Alfred Theodor Wiancko F 1910 Lafayette, Ind.
Professor of Agronomy, Purdue University

Ralph Benjamin Wiley F 1910 (Michigan U 1906) Lafayette, Ind.
Assistant Professor of Engineering, Purdue University

Charles Goodrich Woodbury F 1911 Lafayette, Ind.
Professor of Horticulture, Purdue University

Gilbert Amos Young F 1911 Lafayette, Ind.
Acting Professor of Engineering, Purdue University

WASHINGTON UNIVERSITY CHAPTER

WASHINGTON UNIVERSITY, ST. LOUIS, MISSOURI

Charter Dated May 21, 1910 Chapter Installed June 4, 1910

HISTORICAL SKETCH

In the fall of 1908 the members of Sigma Xi on the faculty of Washington University held a meeting to discuss the advisability of asking for the establishment of a chapter of the Society of the Sigma Xi at the University. As the outcome of this conference a petition was sent to the President of Sigma Xi on December 18, 1908. Just one year later the formal application was presented to the Chairman of the Council, and on May 21, 1910, a letter was received from the President and Dean F. O. Marvin, saying that the last required vote had been received on that day and asking our pleasure in regard to the installation. An invitation was immediately tendered to Dean Marvin to honor us by his presence and to conduct the installation on June 4. Finally, after a dinner served at the Washington Hotel, the Chapter was duly installed.

E. L. O.

OFFICERS FOR 1911–12

President.....FRANCIS EUGENE NIPHER
Vice-President.....WILLIAM TRELEASE
Recording Secretary.....WALTER EDWARD MCCOURT
Corresponding Secretary.....ERNEST LINWOOD OHLE
Treasurer.....JAMES FRANCIS ABBOTT
Councilor.....FRANCIS EUGENE NIPHER

MEMBERSHIP ROLL

James Francis Abbott C 1910* (Chicago U 1906) St. Louis, Mo.
Professor of Zoology, Washington University

Arnold Dettman Alt A 1911 St. Louis, Mo.
Chemist, Mallinckrodt Chemical Works

Henry W Anderson U 1911 Urbana, Ill.
Instructor in Plant Pathology, University of Illinois

William Lewis Breckinridge A 1911 Chicago, Ill.
Chief Engineer, Chicago, Burlington and Quincy Railway

Charles Walter Bryan A 1911 New York City
Chief Engineer, American Bridge Company

George Dock F 1911*† St. Louis, Mo.
Professor of Medicine and Dean of Medical School, Washington University

William Harrison Emig U 1911 St. Lous, Mo.
Graduate Student, Washington University

Victor Emanuel Emmel F 1911* (Brown G 1905) St. Louis, Mo.
Associate in Anatomy, Washington Unversity

Joseph Erlanger F 1911*† (California G 1910) St. Louis, Mo.
Professor of Physiology, Washington University

Percy Leigh Gainey U 1911 Columbia, Mo.
Instructor in Bacteriology, University of Missouri

Charles Elijah Galt U 1911 St. Louis, Mo.
With Christopher and Simpson, Architectural Iron and Foundry Company

Walter Eugene Garrey F 1911* St. Louis, Mo.
Associate in Physiology, Washington University

Chester Harvey Hardy U 1911 St. Louis, Mo.
Instructor in Electrical Engineering, Washington University

Minard Lafever Holman A 1911* St. Louis, Mo.
Consulting Engineer, Holman and Laird

Dennis Emerson Jackson F 1911 (Indiana G 1903) St. Louis, Mo.
Associate in Physiology and Pharmacology, Washington University

George Oscar James F 1911*† St. Louis, Mo.
Assistant Professor of Mathematics and Astronomy, Washington University

Albert Lincoln Johnson A 1911 Buffalo, N. Y.
Vice-President, Corrugated Bar Company

Harold Dean Jolley U 1911 St. Louis, Mo.
Civil Engineer, Reinforced Concrete Company

Edward Harrison Keiser C 1910*† St. Louis, Mo.
Professor of Chemistry, Washington University

John Jacob Kessler, Jr U 1911 St. Louis, Mo.
President and General Manager, Dielectric Manufacturing Company

Walter Charles George Kirchner A 1911 St. Louis, Mo.
Physician.

George William Lamke C 1910 (Michigan U 1906) St. Louis, Mo.
Assistant Professor of Electrical Engineering, Washington University

Alexander Suss Langsdorf C 1910* (Cornell U 1901) St. Louis, Mo.
Professor of Electrical Engineering and Dean, Washington University

Frederick Maynard Mann C 1910 Urbana, Ill.
Professor of Architecture, University of Illinois

Walter Edward McCourt C 1910* (Cornell U 1904) St. Louis, Mo.
Assistant Professor of Geology, Washington University

LeRoy McMaster F 1911* St. Louis, Mo.
Assistant Professor of Chemistry, Washington University

Stockton Mosby McMurran U 1911 Washington, D. C.
Pathologist, Bureau of Plant Industry

George Thomas Moore CF 1910*† St. Louis, Mo.
Professor of Botany, Washington University

Francis Eugene Nipher CF 1910*† (Iowa A 1905) St. Louis, Mo.
Professor of Physics, Washington University

August George Nolte U 1911 St. Louis, Mo.
Engineer, City Sewer Department

Ernest Linwood Ohle CF 1910* (Case F 1904) St. Louis, Mo.
Professor of Mechanical Engineering, Washington University

William Woodward Ohlweiler U 1911 St. Louis, Mo.
Plant Recorder, Missouri Botanical Garden

Eugene Lindsay Opie F 1911†* St. Louis, Mo.
Professor of Pathology, Washington University

George Herndon Pegram A 1911†* New York City
Chief Engineer, Interborough Rapid Transit Company

Joseph Chappell Rayworth F 1911 (Yale U 1906) St. Louis, Mo.
Instructor in Mathematics, Washington University

Ethel Leigh Richards U 1911 St. Louis, Mo.
Graduate Student, Washington University

William Henry Roever F 1911* St. Louis, Mo.
Assistant Professor of Mathematics, Washington University

Caroline Rumbold U 1911 Philadelphia, Pa.
Pathologist, Botanical Department, University of Pennsylvania

Jacob Schramm U 1911 St. Louis, Mo.
Graduate Student, Washington University

Arthur Schweier U 1911 Keokuk, Ia.
Assistant Accounting Engineer, Mississippi River Power Company

Philip Anderson Shaffer F 1911 (Cornell F 1910) St. Louis, Mo.
Professor of Biological Chemistry, Washington University

Robert James Terry F 1911* St. Louis, Mo.
Professor of Anatomy, Washington University

Harry Freeman Thomson U 1911 Boston, Mass.
Instructor in Electrical Engineering, Massachusetts Institute of Technology

William Trelease CF 1910*† (Cornell A 1886) St. Louis, Mo.
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Wilcox, Levi

WATERTOWN
Martin, James Smith

CONNECTICUT—Continued

WEST HAVEN
Aimes, Hubert Hillary Sufferin
Nason, Frank Lewis

WOODBURY
Hitchcock, Henry Steadman

DELAWARE

NEWARK
Cook, Melville Thruston
Hayward Harry
Houghton, Clinton Osborne
Reed, Raymond Clinton

WILMINGTON
Briggs, Henry Ward

WILMINGTON—Continued
Clark, John Andrew
Elliott, John Earl
Heise, Walter Ferdinand
Quayle, William Osborne
Riley, William Hermon
Thayer, Horace Holden, Jr.

DISTRICT OF COLUMBIA

WASHINGTON
Albrecht, George Moritz
Anderson, Martin E.
Anderson, Robert Van Vleck
Ashley, George Hall
Ayres, Samuel Henry
Badger, Walter L.
Ballard, William Salisbury
Banks, Nathan
Bartsch, Paul
Bastin, Edson Sunderland
Bates, Frederick John
Benjamin, Marucs
Berg, William Nathan
Bergen, Harry Van der Veer
Billard, Charles Louis
Blair, Charles Scofield
Bostrom, Carl Augustus
Boyer, Lawrence Ray
Brand, Charles John
Briggs, Clark Arthur
Brooks, Herbert Barton
Brown, Edgar
Brush, Warren David
Buell, Max Whitney
Bunzell, Herbert Horace
Burgess, George Kimball
Burton, Harry Edward
Butler, Bert S.
Calkins, Frank Cathcart
Calvert, William Robert
Cameron, Frank Kenneth
Capps, Stephen Reid, Jr.
Chamberlain, Edward Blanchard
Chapin, Theodore Sheffield
Charles, Vera Katharine
Chittenden, Alfred Knight
Clapp, Earle Hart
Clark, Burton William
Clark, William Alexander
Clawson, Arthur Brooks
Coblentz, William Weber
Coltman, Robert, Jr.
Conway, John Sebastian
Coville, Elisabeth Boynton
Coville, Frederick Vernon
Crittenden, Eugene Casson
Crumb, Samuel Ebb
Dana, Samuel Trask
Day, Arthur Louis
Dearing, Charles Thornton
Doran, James Maurice
Dunlap, Frederick Levy
Ellis, Arthur Jackson
England, William Harry
Evatt, Edward King
Everman, Barton Warren
Fahrenbach, John Henry
Fenner, Clarence Norman
Ferner, Roy Yalding
Field, Ethel Content
Flocken, Charles Frederick
Ford, Thomas Bartlett

WASHINGTON—Continued
Fortier, Samuel
Francis, Edward
Franklin, Edward Curtis
Frary, Hobart Dickinson
Free, Edward Elway
Galloway, Beverly Thomas
Gehr, Ray Stewart
Gelwix, Daniel Edwin
Gore, Herbert Charles
Graves, Henry Solon
Gray, Arthur Wellington
Graybill, Harry Webster
Grow, Eugene Julius
Hale, William Worth
Hall, Asaph
Hall, Maurice Crowther
Hall, Rufus Clifford
Hammar, Alfredo Gottlieb
Hance, James Harold
Harper, Daniel Roberts, 3rd
Harrington, Guy Pirnbrake
Harris, Rollin Arthur
Harter, Leonard Lee
Hasselbring, Heinrich
Haupt, Charles Elvin, Jr.
Hays, Willet Martin
Haywood, John Kerfoot
Heald, Walter
Hedgcock, George Grant
Heller, Edmund
Hellman, Carl August
Hepburn, Joseph Samuel
Hewes, Lawrence Ilsley
Hewett, Donnel Foster
Hill, Robert Thomas
Holleran, Francis Edward
Holmes, Joseph Austin
Howard, Leland Ossian
Hudson, Claude Silbert
Hunter, Walter David
Hyde, William Albert
Iddings, Joseph Paxson
Ingram, Della Elizabeth
Jackman, Dean Morreau
Jacobs, Cora Anna
Jamieson, Clara Octavia
Jenne, Eldred Lewellyn
Jenney, Walter Proctor
Johnson, Edward Carl
Katz, Frank James
Kellerman, Karl Frederic
Kenyon, Frederick Courtland
Kern, Robert Russ
Kindle, Edward Martin
Kirk, Edwin
Knopf, Adolph
Lamb, George Newton
Larsen, Esper Signius, Jr.
Lindsey, Archibald
Lines, Edwin Fuller
Lloyd, Edwin Russell
McBride, Russell Smith

DISTRICT OF COLUMBIA—Continued

WASHINGTON—Continued
McCray, Arthur Howard
McCollum, Burton
MacDonald, Donald Francis
McMurran, Stockton Mosby
McIndoo, Norman Eugene
McWhorter, Charles Leonard
Marsden, Roger Dearborn
Marvin, Charles Frederick
Maxon, William Ralph
Meinzer, Oscar E.
Menge, George Albert
Metcalf, Haven
Michaelson, Joseph McConnechy
Miles, George F.
Miller, John Milton
Moffit, Fred Howard
Muhse, Effa (Funk)
Murphy, Louis Sutliffe
Nelson, James Allen
Nichols, Henry James
Noble, Levi Fatzinger
Northrop, John DeWolf
Norton, Jesse Baker
Nutting, Perley Gilman
Olmstead, Lewis Bertie
Pack, Robert Wallace
Packard, Roscoe Milliken
Palkin, Samuel
Palmer, Theodore Sherman
Patrick, George Edward
Parker, John Bernard
Peck, Caro Beth
Peck, William Argulus
Pemberton, Cyril E.
Pennington, Mary Engle
Phelps, Isaac King
Phillips, Everett Franklin
Pickford, Edward Ferguson
Pogue, Joseph Ezekiel, Jr.
Pool, Venus Worrell
Pollard, Willard Lacy
Potter, Alden Archibald
Preston, John Frederick
Priest, Irwin G.
Pritchard, Fred J.
Rankin, George Atwater
Ransom, Brayton Howard
Ransome, Frederick Leslie
Ramsey, Henry John
Read, Effie Alberta
Reed, Paul Lyon
Reed, William John
Ritter, Gilbert Powers
Roark, Ruric Creegan
Roberts, John William

WASHINGTON—Continued
Rogers, Gaillard Sherburne
Russell, Bert
Salant, William
Sale, John Walter
Sampson, Arthur William
Saunders, De Alton
Schaller, Waldemar Theodore
Scheffer, Theopilus H.
Schreiner, Walter Red
Schultz, Alfred Reginald
Shantz, Homer Leroy
Shaw, Eugene Wesley
Shaw, Roscoe Hart
Shear, Cornelius Lott
Shepherd, Ernest Stanley
Smith, Charles Meldrum
Smith, Harry Scott
Smith, Seward Dwight
Snodgrass, Robert Evans
Sosman, Robert Browning
Spencer, Arthur Coe
Stedman, John Moore
Sterrett, Douglas Bovard
Steubenrauch, Arnold Valentine
Stinchfield, Ray Lewis
Stratton, Samuel Wesley
Sullivan, Michael Xavier
Taber, Walter Cox
Thelen, Rolf
Thompson, William Robin
Tillotson, Claude Raymond
Tolman, Lucius Moody
Tullar, Charles Edward
Turrentine, John William
Umpleby, Joseph Bertram
Vedder, Edward Bright
Vickery, Roy Albion
Wallace, Errett
Weber, Frederick Clarence
Weed, Alfred Cleveland
Weibel, Ernest Edward
Wenner, Frank
Wesson, Laurence Goddard
White, Gershom Franklin
White, Walter Porter
Wight, William Franklin
Williams, Gardner Fred
Willis, Bailey
Woglum, Russell Sage
Wood, Herbert Spencer
Wood, Neal Naramore
Woodruff, Elmer Grant
Woodward, Robert Simpson
Woodward, Tom Elwyn
Zook, Leslie Lewis

FLORIDA

FORT BARRANCAS
Colton, Roger Baldwin

GAINESVILLE
Benton, John Robert
Berger, Edward William
Collison, Stanley Edgar
Keppel, Herbert Govert

MARATHON
Carter, Richard William

ORLANDO
Edwards, Gaston Holcombe

PENSACOLA
Walter, Albert Gustave

ST. AUGUSTINE
Rohrbaugh, James Madison

TALLAHASSEE
Sellards, Elias Howard

WEST PALM BEACH
Adams, Hanford Curtis

WINTER PARK
Barney, Ida

GEORGIA

ATHENS
Landess, William M.
Pond, Robert Spencer
Reade, John Moore

ATLANTA
Block, Edward Bates

ATLANTA—Continued
Boggs, Gilbert Hillhouse
Childs, Leroy William
Coon, John Sayler
Grant, Justin Frank
Porter, Fred Baker

GEORGIA—Continued

ATLANTA—Continued
Robeson, George Chapin
Smith, Francis Palmer
Spooner, Charles Stockman
Van Haagen, Walter Kurt
Wright, Winthrop Robins

AUGUSTA
Cutter, William Dick

JEKYL ISLAND
McClure, Roy Donaldson

MACON
Carver, Gail Luke
Lawrence, Frank Elmaker

SAVANNAH
Corson, Eugene Rollin
Gaines, Frederic Freelinghuyson
Neal, George Alfred, Jr.

IDAHO

BOISE
Baldwin, George Clyde
Day, Warren French
Fuller, Lucius B.

COEUR d'ALENE
Bruce, Donald

FEATHERVILLE
Bass, William Carroll

GRACE
Ekern, Emil Alfred

IRVING FALLS
Large, Thomas

KELLOGG
Easton, Stanley Alexander
Hofer, Fred Miller

MOSCOW
Aldrich, John Martin
Barrows, Dessie Brown Robertson
Barrows, Frank Lee
Childers, Lucius Franklin
Ende, Carl Leopola von

MOSCOW—Continued
Gurney, Laurence Emery
Kostalek, John Anton
Shattuck, Charles Houston
Stewart, Charles Arthur

MULLAN
Dwyer, Charles Eustace

NAMPA
Shinn, James Ricketts

POCATELLO
Henderson, Henrietta

RICHFIELD
McConnell, Ira Welch

STAR
Naugle, Johnson Edward

ST. MARIES
Clarke, Charles Patrick
Spaulding, Thomas Claude

WALLACE
Morris, William West

ILLINOIS

ABINGDON
Mansfield, Warren Moore

ARMSTRONG
Dewey, James Ansel

AURORA
Zeleny, Frank

BLOOMINGTON
Homberger, Alfred Wilhelm
Stillhamer, Arthur Grant

CANTON
Lloyd, Robert Clinton

CARBONDALE
Gilbert, John Philo

CHAMPAIGN
Collier, John S.
Earnest, William Watson
Ernest, Thomas Reuben
Ludwig, Edward Roy
MacGillivray, Alexander Dyer
Miller, Wilford Stanton
Morley, Raymond Kurtz
Noerenberg, Clarence Eugene

CHARLESTON
Trauseau, Edgar Nelson

CHATSWORTH
Stanford, Howard Russell

CHICAGO
Abbott, William Lamont
Adams, Everette Eugene
Alcock, Nathaniel G.
Allee, Warder Clyde
Allen, George D.
Allyn, Harriett M.
Anderson, Ernest
Angell, James Rowland
Atkins, Kenneth Noel
Atwood, Wallace Walter
Atwood, Winfred McKenzie

CHICAGO—Continued
Avery, Andrew Ordell
Bach, Irwin Woodward
Barnard, Edith Ethel
Barrows, Harlan Harland
Bartelmez, George William
Beattie, Harold Mairs
Becker, Donald Neil
Bedford, Fred William
Bensley, Robert Russell
Benson, Robert Louis
Bentley, Wilton
Bessey, Carl Athearn
Bishop, Edwin Sherwood
Bliss, Gilbert Ames
Blount, Mary
Boardman, Harry Clow
Bocian, Edward Emanuel
Bolme, Ole Martin
Bond, Perry Avery
Boyden, Henry Blakeslee
Breckinridge, William Lewis
Brill, George Mackenzie
Brockway, Alvah E.
Brokaw, Albert Dudley
Brundage, Avery
Bruner, Frank G.
Buchanan, John Lee
Burnham, William Allds
Cady, Gilbert Haven
Caldwell, Joseph Stuart
Caldwell, Otis William
Caldwell, Will Carleton
Carlson, Anton Julius
Carpenter, Clifford Daniel
Carpenter, Clinton Arthur
Carr, Harvey
Carr, Maurice Leroy
Chamberlain, Charles Joseph
Chamberlin, Guy Louis
Chamberlin, Rollin Thomas

ILLINOIS—Continued

CHICAGO—Continued
Chamberlin, Thomas Chrowder
Charlton, Cecil Floyd
Chase, Martin Rist
Child, Charles Manning
Chittenden, Edward Wilson
Clapp, Grace Lucretia
Clifford, Oliver Charles
Clutton, Effie Virginia Fixen (Clutton, Mrs. Fred H.)
Cook, William George
Cooper, William S.
Copeland, Lyman Francis
Corper, Harry John
Coulter, John Merle
Cowdry, Edmund Vincent
Cowles, Henry Chandler
Crocker, William
Curme, George O., Jr.
Curtis, Leigh G.
Dalstrom, Oscar Frederick
Davis, Benjamin Franklin
Davis, David John
Day, William Asher
Debler, Bruno Erdman
Decker, Charles Elijah
Dick, George F.
Dines, Lloyd Lyne
Dirks, Henry Bernhard
Donnelly, Leonard G.
Dorsey, George Amos
Doubt, Thomas Eaton
Drake, Robert Warren
Drake, William Allen
Dray, Walter Remy
Drennan, Fred Miller
Dunn, Elizabeth Hopkins
Eckerson, Sophia H.
Emerson, Clarence
Emmons, William Harvey
Englund, Carl Robert
Estep, Harvey Cole
Farrington, Oliver Cummings
Fenner, Robert Coyner
Fernald, Mabel Ruth
Files, Ellery Knapton
Flammer, Ernest
Fletcher, Harvey
Freeman, Frank Nugent
Freud, Benjamin Ball
Fuller, George Damon
Gale, Henry Gordon
Gardner, Bradley Charles
Gasche, Ferd Guy
Gatewood, Lee Connel
Gilbert, John Joseph
Glattfeld, John W. E.
Glenn, Thomas Haigh
Goettsch, Julius
Goheen, Robert Harold
Goode, John Paul
Goodman, Herbert Marcus
Grandy, Charles
Graver, Alexander MacDonald
Greenman, Jesse More
Greir, James Richard
Grigsby, Harry Davett
Gustafson, John Christopher
Haeffner, John George
Hagenow, Charles Frederick
Hall, Ernest M.
Hall, Winfield Scott
Hamburger, Walter Wile
Hanley, James Thomas
Harris, Norman MacLeod
Harvey, Basil Coleman Hyatt
Hayes, Joseph William
Hayes, Mary Holmes Stevens
Heinemann, Paul Gustav
Hektoen, Ludvig

CHICAGO—Continued
Hemenway, Ansel Francis
Hemmer, Emil John
Hennings, Albert Edward
Henry, Gladys R.
Herrick, Charles Judson
Hess, Charles L. von
Hibbard, Paul Llewellyn
Hill, Bruce Vickroy
Hill, Charles
Hilpert, Willis Stose
Hilton, Hugh Gerald
Hinds, Henry
Hinkle, Edgar Clayton
Hobbs, Glenn Moody
Hobbs, Raymond Mason
Hobert, Stephen Galusha
Hogan, Edward Lawrence
Holmes, Harriet F.
Holsinger, Lloyd
Hosken, Raymond Barclay
Houts, Guy Joseph
Howatt, John
Hunter, Walter Samuel
Ingberg, Simon
Ireland, Roy Rowell
Irons, Ernest Edward
Jackson, Reginald
Jacobson, Clara
Jacobson, Edmund
Jasper, Thomas McLean
Jensen, George Leonard
Johannsen, Albert
Johnston, Oscar Perry
Jones, Walter Everett
Jordan, Edwin Oakes
Judd, Charles Hubbard
Keil, Raymond Humphrey
Kelley, Alfred Allen
Kildahl, Nielsine Johanna
Kinsley, Carl
Kirk, Edwin Garvey
Klein, Sidney
Knight, Lee Irving
Koch, Edward William
Koch, Fred Conrad
Kotz, Raymond Castle
Kramer, Raymond Carl
Kyes, Preston
Land, William Jesse Goad
Lando, Maximillian Nandor
Laves, Kurt
Lawrie, James Wright
LeCount, Edwin Raymond
Lee, John Yiubong
Lee, O. J.
Leffingwell, Ernest DeKoven
Lemon, Harvey Brace
Lewald, Arthur Maurice
Lewis, Albert Buell
Lewis, Frederick B.
Lillie, Frank Rattray
Lingle, David Judson
Llewellyn, Ralph Corson
Lloyd, Morton Githens
Long, John Harper
Lord, Arthur Russell
Lucas, Howard Johnson
Luckhardt, Arno Benedict
Ludlow, Justin Wyman
Lunn, Arthur Constant
Lussky, Herbert O.
Lyman, James
McArthur, Selim Walker
McCarn, Burtis Barton
McClellan, John Hancock
McCormick, Florence A.
McCoy, Herbert Newby
McDonald, Lewis
McIndoo, Norman Eugene

ILLINOIS—Continued

CHICAGO—Continued
McKibben, Paul Stillwell
McMillan, Eugene Campbell
MacMillan, William Duncan
McWayne, Albert
Magnuson, Paul Budd
Mann, Charles Riborg
Martin, Arselia Bessie
Masters, Frank Harris
Mathews, Albert Prescott
Mathews, Samuel Alexander
Mayo, Alfred David
Mead, Lucy Winifred (Brant) (Mead, Mrs. James)
Meek, Seth Eugene
Menzies, Alan Wilfrid Cranbrook
Michelson, Albert Abraham
Millikan, Robert Andrews
Millspaugh, Charles Frederic
Mitchell, James Herbert
Mitchell, Nolan Dickson
Monroe, Walter Scott
Moody, Howard Wilson
Moon, Virgil Holland
Moore, Eliakim Hastings
Moore, John Colin
Motl, Charles Leo
Moulton, Everett C.
Moulton, Forest Ray
Myers, George William
Myrick, George Harold
Nef, John Ulric
Nekola, John Wenceslaus
Newman, Horatio Hackett
Nissen, Charles Matthias
Nitz, Ingo Charles
North, Henry Archibald
Osborne, Raymond William
Osgood, Wilfred Hudson
Osthoff, Otto Ernest
Parsons, Charles Wesley Darwin
Patterson, James
Payne, Harold Gould
Pennock, Edward M.
Perrin, Flemming Allen Clay
Peterson, Andrew Peter
Peterson, William Arnold
Petry, Loren Clifford
Pettet, Roswell Talmadge
Pfeiffer, Norma Etta
Pfeiffer, Wanda May
Phillips, Alfred Edward
Pillsbury, Charles Stephen
Potter, Paul David
Potterf, Loran O.
Powell, Jesse Roy
Prentiss, Charles William
Prior, Edward Hamilton
Pusey, Brown
Raiford, Lemuel Charles
Ramey, Horace Patton
Randall, Frank Alfred
Ranson, Stephen Walter
Raster, Walther
Raymond, Miner
Rech, Gilbert Henry Andrew
Retzer, Robert
Remon, John Allen
Renner, Edwin Theodore
Rice, Arthur Louis
Richmond, Joseph
Riddle, Oscar
Riggs, Elmer Samuel
Robinson, Ward Reid
Royse, Daniel
Sailor, Robert Warren
Salisbury, Rollin D.
Sanderson, Mildred Lenora
Sauer, Carl Ortwin
Sawyer, George Pillsbury

CHICAGO—Continued
Schlesinger, Hermann Irving
Schnable, George L.
Scholes, Daniel Ransom
Schoonover, William Leroy
Schweitzer, Arthur Richard
Seibel, Charles William
Sharp, Lester Whyland
Shelford, Victor Ernest
Shrader, Frank Kay
Simmons, Harold Hoyt
Simpson, Burton Jesse
Simpson, Howard Sard
Sinclair, John George
Slaught, Herbert Ellsworth
Slye, Maud
Smith, Arthur Bessey
Smith, Burke
Smith, William Jones
Smithson, John Edward
Stair, Jacob Leander
Stair, Leslie Dalrymple
Stanford, Harold Melvin
Starr, Frederick
Starr, Anna Morse
Stein, Milton Frederick
Stephenson, Joseph Clark
Stieglitz, Julius
Stoland, Ole O.
Storey, William Benson
Strong, Reuben Myron
Swern, Percy Weston
Swift, Charles Henry
Tashiro, Shiro
Taylor, John Orlo
Terry, Ethel M.
Tibbals, Charles Austin, Jr.
Todd, David Duke
Tower, William Laurence
Towne, Walter James
Treichel, Henry George
Trumbull, Harlan Leo
Udden, John Andrews
Van Dervort, Jameson
Vincent, Stella B.
Viol, Charles Herman
Walker, Sidney, Jr.
Walledom, Jesse Jacobson
Webster, Ralph Waldo
Weller, Stuart
Wells, Harry Gideon
Wheeler, Herbert Merrill
Wilbur, J. Ralph
Wilcox, Burton B.
Wilczynski, Ernest Julius
Williams, Fred Mortimer
Willis, Bernard Darwin
Williston, Samuel Wendell
Wilson, Herrick East
Wilson, John Gordon
Winton, Andrew Lincoln
Woelfel, Albert
Woodyatt, Rollin Turner
Worstall, Robert Arthur
Young, Mary Sophie
Zeit, Frederic Robert
Zoethout, William Douwes

CHICAGO HEIGHTS
Gilbert, Newell Clark
Taylor, Harold George

CICERO
Morris, Verle Weaver

CRYSTAL LAKE
Dike, Charles F., Jr.

DANVILLE
Cooke, Allen Burton
James, Charles Austin

ILLINOIS—Continued

DECATUR
Eckhard, George Frederick
Hessler, John Charles
Neustadt, George Auerbach
Putnam, William James
DEKALB
Smith, Paul Ardell
Wager, Ralph Edmond
Wood, Henry Clay
DUQUOIN
Gibson, John Chester
EAST MOLINE
Strombec, George Mauritz
ELBURN
Elden, Ralph Waldo
Mathewson, John Warne
EVANSTON
Atwell, Charles Beach
Basquin, Olin Hanson
Bauer, William Charles
Burger, William H.
Butler, Susan Farley (Rolfe) (Mrs Horace Graham Butler)
Coghill, William Hawes
Crew, Henry
Curtiss, David Raymond
Decker, Charles Elijah
Fox, Philip
Gault, Robert Harvey
Gibson, W. Stanley
Grant, Ulysses Sherman
Hargitt, George Thomas
Harris, Abram Winegardner
Harper, Eugene Howard
Hayford, John Fillmore
Hennessey, Enid
Hines, Murray Arnold
Holgate, Thomas Franklin
Holsinger, Lloyd
Irish, Leland Wesley
Jensen, Gerhard Hemming
Lewis, Winford Lee
Locy, William Albert
Mansfield, George Rogers
Mead, Charles Searing
Merritt, John Wesley
Moore, Robert Lee
Morehead, James Caddall
Rolfe, Susan Farley
Shaw, Leon Irwin
Stanford, Mary (Olson) (Mrs. H. M. Stanford)
Tatnall, Robert Richard
Tracy, Henry Carroll
Weld, Lewis Hart
Wilson, Robert Edward
Woodburn, William Logan
Young, Abram Van Eps
GALENA
Bench, Alfred Rittscher
GALESBURG
Wells, Bertram Whittier
Wilson, Arthur John
GENEVA
Bridgman, Olga Louise
GREENVILLE
Ernsberger, Iva Belle
GLENARM
Stout, Frank Lewis
HARVEY
van Pappelendam, Bernard Carlyle
HERSMAN
Hersman, Francis Craig
HIGHLAND
Latzer, Robert Louis
HINSDALE
Van Inwagen, Frank
HOSPITAL
Wussow, August Frank Daniel
HOWARD
Way, Cassius
JACKSONVILLE
Brown, James
KANKAKEE
Baer, J. L.
KENILWORTH
Hildebrand, Louis Ernest
KEWANEE
Crosby, Clifford
Manning, Florence Leland
LA GRANGE
Danner, Jake
Mitchell, Herbert Cossitt
Sullivan, Ellen Theresa
Thomas, Emma Jane
LAKE FOREST
Betten, Cornelius
Clawson, Arthur Brooks
Rendtorff, Edward J.
LA MOILLE
Decker, Carl Henry
LAWRENCEVILLE
Robinson, Howard Needham
MOLINE
Mixter, George Webber
MONMOUTH
Fox, Harry Bert
MONTROSE
Spitler, John Clyde
MORTON PARK
Van Brunt, George Athol
NEW MEMPHIS
Bopp, Julius Valentine
NEW WINDSOR
Coleman, Clyde Bestor
NORMAL
Barker, George A.
Madden, Irwin Arthur
Peterson, Harvey Andrew
Pricer, John Lossen
NORRIS CITY
Hoskins, Ezekiel Edward
OAK HILL
Bartlett, Roland Miller
OAK PARK
Ripley, Charles Trescott
Talbot, Kenneth Hammett
Thalman, Joseph Luther
Weckel, Ada Louise
ORION
Jordan, Lura Elizabeth (Parsons) (Mrs Erwin B. Jordan)
OTTAWA
Sherwood, Frederick Augustus
PEORIA
Ashman, George Cromwell
Hight, Eugene Stewart
PIPER CITY
Oathout, Charles Hubert
RIVERSIDE
Craft, Francis Marion
ROCKFORD
Castro, Matilde
Day, Dudley Watson
Marshall, Ruth
Robinson, Charles Jason
Scott, Lee Osborne
Weld, Edward Howland

ILLINOIS—Continued

ROCK ISLAND
Birdsall, Lewis Isaac
Cederberg, William Emanuel
Hazard, Lee Herbert
Magnusson, John Peter

SALEM
Johnson, William Chance
McClenahan, William Thompson

SOUTH HOLLAND
Gouwens, Cornelius

SPRINGFIELD
Burch, George Francis
Center, Orlo Dorr
Crook, Alja Robinson
Ide, Francis Pierce
Kinnear, Theron James
Lanphier, Robert Carr
Patton, Charles Lanphier
Peters, Albert Theodore
Roman, Frank Louis

STERLING
Deets, Ralph Emerson

SYCAMORE
Pond, Ethel Claire
Stephens, Herbert Coles

URBANA
Abrams, Duff Andrew
Adams, Charles Christopher
Anderson, Arvid Robert
Anderson, Henry W.
Anderson, Samuel Herbert
Arps, George Frederick
Aumer, Joseph Paul
Bagley, Florence (Winger) (Mrs. William Chandler Bagley)
Bagley, William Chandler
Bailey, Ernest Winfield
Baker, Ira Osborn
Balke, Clarence William
Barrett, James Theophilus
Bartow, Edward
Bates, Stuart Jeffrey
Baxter, Florence Gabrielle
Bayley, William Shirley
Beal, George Denton
Becht, Frank Christian
Bell, James Edgar
Bennett, Claudius Edmund
Bennett, Elizabeth Ruth
Berg, Ernst Julius
Bevier, Isabel
Blair, Joseph Cullen
Blatchley, Raymond Silliman
Bleininger, Albert Victor
Borger, Robert Lacey
Brand, Herbert Amery
Brand, Royden Earl
Briscoe, Charles F.
Brooks, Morgan
Brown, Briggs Odd
Bryant, John Myron
Burgess, Laurie Lorne
Burgess, Paul Steere
Burres, Opal
Burrill, Thomas Jonathan
Buyers, Archie Stanton
Cady, Gilbert Haven
Carman, Albert Pruden
Carpenter, Frederic Walton
Coffey, Walter Castella
Colvin, Stephen Sheldon
Crandall, Charles Spencer
Crathorne, Arthur Robert
Curtiss, Richard Sydney
Davenport, Eugene
Denton, William Wells
Derick, Clarence George
DeWolf, Frank Walbridge
Dietrich, William

URBANA—Continued
Douthitt, Herman
Dufour, Frank Oliver
Eells, Willard Clark
Ekblaw, Walter Elmer
Emch, Arnold
Emmett, Arthur Donaldson
Enger, Melvin Lorenius
Farwell, Stanley Prince
Fisher, Forest Addison
Foote, Francis Seeley, Jr.
Forbes, Stephen Alfred
Fraser Wilbur John
Gaines, Walter Lee
Glasgow, Hugh
Glasgow, Robert Douglas
Glenn, Pressley Adams
Godeke, Harry Frederick
Goldthwaite, Nellie Esther
Gonnerman, Harrison Frederick
Goodenough, George Alfred
Goss, William Freeman Myrick
Gray, Daniel Thomas
Grindley, Harry Sands
Gustafson, Axel Ferdinand
Hall, Louis Dixon
Hart, Charles Arthur
Hawk, Philip Bovier
Hayden, Cassius Clay
Hegnauer, Leonard
Hepburn, Nelson William
Hirsch, Edwin Fred
Hoffman, Paul Alexander
Hopkins, Cyril George
Hornbeak, John Wesley
Hottes, Charles Frederick
Houston, Harold Allen
Isham, Helen
Jesse, Richard Henry, Jr.
Kamm, Oliver
Kerr, Josephine Ellrod
Kircher, Paul
Knipp, Charles Tobias
Kratz, Alonzo Plumsted
Leutwiler, Oscar Adolph
Lincoln, Francis Church
Lloyd, John William
Love, Robert James
Lytle, Ernest Barnes
MacGillvray, Alexander Dyer
MacInnes, Duncan Arthur
McCarthy, Ellen S.
McDonald, Elmer Massey
McEwen, George Francis
McFarland, David Ford
McIntosh, Donald
Malcolm, Charles Wesley
Mann, Frederick Maynard
Marquis, Franklin Wales
Mason, Mayne Seguine
Millard, Earl Bowman
Millard, Floyd Hays
Miller, George Abram
Miller, Wilford Stanton
Mitchell, Harold Hanson
Moore, Herbert Fisher
Morley, Raymond Kurtz
Mumford, Herbert Windsor
Nickell, Lloyd Francis
Noyes, William Albert
Oberdorfer, Henry Dickson
Paine, Ellery Burton
Parr, Samuel Wilson
Pettit, James Harvey
Readhimer, Jerome Edward
Reed, Frank Walker
Rich, John Lyon
Richards, Charles Russ
Richardson, Robert Earl
Rickards, Burt Ransom

ILLINOIS—Continued

URBANA—Continued
Ricker, Ethel
Ricker, Nathan Clifford
Rietz, Henry Lewis
Rolfe, Charles Wesley
Rusk, Henry Perly
Rutledge, George
Savage, Thomas Edmund
Schmidt, Edward Charles
Schulz, William Frederick
Shattuck, Samuel Walker
Shaw, Eugene Wesley
Shaw, James Byrnie
Shook, Glenn Alfred
Sisam, Charles Herschel
Slater, Willis Appleford
Smith, Frank
Smith, George McPhail
Smith, Louie Henry
Snodgrass, John McBeath
Stebbins, Joel
Stewart, Harold Wilson
Stoek, Harry Harkness
Stouffer, Ellis Bagley
Strachan, Earl Kenneth
Stromquist, Walter Gottfried
Stull, Ray Thomas
Sutherland, Arthur Howard
Talbot, Arthur Newell
Taylor, Thomas Smith
Thorpe, John Charles

URBANA—Continued
Townsend, Edgar Jerome
Van Cleave, Harley Jones
Wahlin, Gustaf Eric
Ward, Henry Baldwin
Washburn, Edward Wight
Watson, Floyd Rowe
Welch, Paul Smith
Wells, Newton Alonzo
White, James McLaren
Wiley, Carroll Carson
Williams, Elmer Howard
Windsor, Margaret Boynton
Yensen, Trygve D.
Zeleny, Charles

WESTERN SPRINGS
Patterson, Harriet (Wales) (Mrs. E. C. Patterson)
Willard, Stephen Franklin

WEST YORK
Bell, Rodney Linton

WHEATON
Christman, Laura Ethel

WILMETTE
Morrison, Guy Burl

WINNEBAGO
Parsons, George

WINTHROP HARBOR
Utley, Jay DeWitt

INDIANA

ANDERSON
Tucker, William Motier

BLOOMINGTON
Alburger, Henry Rihl
Andrews, Frank Marion
Andrews, Marie Opperman
Beede, Joshua William
Bryan, William Lowe
Carmichael, Robert Daniel
Cogshall, Wilbur Adelman
Cumings, Edgar Roscoe
Davisson, Schuyler Colfax
Drew, David Abbott
Dutcher, John Benjamin
Eigenmann, Carl H.
Eigenmann, Rosa Smith (Mrs. C. H. Eigenmann)
Foley, Arthur Lee
Foley, Eupha May
Haggerty, Melvin Everett
Hanna, Ulysses Sherman
Harman, Mary Theresa
Hufford, Mason Edward
Lee, Ira Elver
Lindley, Ernest Hiram
Lyons, Robert Edward
MacDill, Leslie
Martin, John N.
Mason, Thomas Edward
Mathers, Frank Curry
May, Clarence Earl
Moenkhaus, William J.
Mottier, David Myers
Myers, Burton Dorr
Ness, Alpheus Russel
Payne, Fernandus
Pohlman, Augustus Grote
Ramsey, Rolla Roy
Rothrock, David Andrew
Scott, Will
Van Hook, James M.

BLUFFTON
Williamson, Edward Bruce

BRISTOL
Bordner, John Serenus

CRAWFORDSVILLE
Bodine, Donaldson
Chapman, Edgar K.
Reddick, Guy A.
Thomas, Mason Blanchard

EVANSVILLE
Brooks, William Conrad

FORT WAYNE
Graham, Fred Milo
Krueper, Harry Joseph
Mead, Franklin Bush
Stone, Thomas Wade
Wagner, Edward Andrew

GARY
Elm, Evar Emanuel
McNamee, Lawrence Ross
Wheeler, Arthur Wayne

HANOVER
Boyd, Paul Prentice

INDIANAPOLIS
Alburger, Henry Rihl
Blatchley, Willis Stanley
Brown, Charles Carroll
Gard, Russell Tyner
Hollis, Frederick Stearns
Kime, Virgil Morrison
Lewis, Otto L.
McMeans, Orange Edward
Shipp, Augustus Clyde
Simons, Etoile Bessie
Torian, Oscar Noel

JEFFERSONVILLE
Willoughby, Levi Philip Ray

KEMPTON
Holmes, Major Edward
Warren, Joseph Allen

KOUTS
Warren, Joseph Allen

LAFAYETTE
Arthur, Joseph Charles
Baker, Linnaeus Earl

INDIANA—Continued

LAFAYETTE—Continued
Benjamin, Charles Henry
Bill, Earl Gordon
Breeze, Frederick John
Burrage, Severance
Caswell, Albert Edward
Coulter, Stanley
Craig, Robert Alexander
Dukes, Richard Gustavus
Duncan, David Christie
Edmonson, John Benjamin
Esterline, John Walter
Evans, Percy Norton
Ferry, Ervin Sidney
Fitch, Mary Alida
Fuller, Frederick Driggs
Golden, Michael Joseph
Goss, Arthur
Harding, Charles Francis
Harrison, Oliver Morton
Hatt, William Kendrick
Hewit, Benjamin Hartley
Hoffman, James David
Hunziker, Otto Fred
Johnson, Arden R.
Jones, William James, Jr.
Kenyon, Alfred Monroe
Kern, Frank Dunn
Knapp, Willard Alfred
Mahin, Edward Garfield
Marshall, William
McCarthy, Charles Stephen
Middleton, Arthur Renwick
Mitchell, Elizabeth
Moore, Charles Ruby
Oskant, Joseph
Poorman, Alfred Peter
Pipal, Francis John
Price, Melvin
Pumphrey, Ray Edgar
Roberts, Paul Linch
Rowell, Lewis Dow
Sackett, Robert Lemuel
Scofield, Herbert Henry
Skinner, John Harrison
Smalley, Harold Ryland
Smith, Albert
Smith, Charles Marquis
Spitzer, George
Stone, Winthrop Ellsworth
Terry, Oliver Perkins
Topping, Alanson Niles

LAFAYETTE—Continued
Wainwright, Guy Alwyn
Westlund, Jacob
Weeks, Luther Cornelius
Wiancko, Alfred Theodor
Wiley, Ralph Benjamin
Woodbury, Charles Goodrich
Young, Gilbert Amos

LINTON
Haseman, Joseph Henry

LOGANSPORT
Geer, Isaac Wheeler
Hesler, Robert

MARION
Bell, George Alfred, Jr.

MISHAWAKA
MacLean, Wilber Marshall
Whittelsey, Theodore

OWENSVILLE
Thompson, Albert Warrick

RICHMOND
Hayes, Stanley Wolcott
Hole, Allen David
Mendenhall, William Orville
Ross, Louis Francisco

SOUTH BEND
Edmonson, Oscar Norton
Hitchcock, Walter Andrew
Kephart, George Eaton

TERRE HAUTE
Hathaway, Arthur Stafford
Hyde, Roscoe Raymond
Knipmeyer, Clarence Carl
Reckert, Frederick Carl
Thomas, Harold Allen
White, John

VINCENNES
Brown, Simpson Leroy

WABASH
Kracke, Ella W.

WEST LAFAYETTE
Knapp, Willard Alfred
Mitchell. Elisabeth

WEST RICHMOND
Gano, Laura

WHITING
Wolf, John Emerson

IOWA

ADEL
Straight, Halver Rufus

AMES
Buchanan, Robert Earle
Burnett, Esther Pearl (Hensel) (Mrs. L. C. Burnett)
Colpitts, Julia Trueman
Coover, Forrest Winfred
Davidson, Jay Brownlee
Dox, Arthur Wayland
Evvard, John Marcus
Fish, Fred Alan
Ford, Howard Carlton
Fowler, Chester Charles
Guthrie, Joseph Edward
Hammer, Bernard Wernick
Hughes, Harold DeMott
Major, Charles Curtis
Marstin, Anson
Shane, Adolph
Shedd, Claude Kedzie
Summers, Henry Elijah
Williams, Ira Abraham

ATLANTIC
Aschenbrenner, Kathryn Theiss

BURLINGTON
Leopold, Carl Starker
Scholz, Herman Albert
Witte, John Henry

CEDAR FALLS
Kadesch, William Henry
Mount, George Haines

CEDAR RAPIDS
Brocksmith, John Cornelius
Edinger, Paul Frederick
Ivins, Harry Morgan
Weld, LeRoy Dougherty

CENTERVILLE
Adams, Joseph Quincy
Robertson, Charles Adolph

COUNCIL BLUFFS
Mead, Lucy Winifred (Brant) (Mrs. James Mead)

CRESCO
Buckley, Grace Emma
De Voe, Philip Kirby

DAVENPORT
Andrews, Launcelot Winchester
Barr, William Milton

IOWA—Continued

DAVENPORT—Continued
Decker, George Edward
Hill, Norman Haden
Nabstedt, Arthur Theodore
Watzek, Charles Harlan

DES MOINES
Beer, Paul
Berryhill, James Guest, Jr.
Crellin, Edward Webster
Hartupee, Harvey Wilfred
Lees, James Henry
Partch, Clarence Elmar
Posner, Edward R.
Richardson, Florence Ella

DYSART
Jensen, Frank Thomas

FAIRFIELD
Putnam, Karl Sobieski

GRINNELL
Conard, Henry Shoemaker
Norris, Harry Waldo
Norsworthy, Leonard D.
Swisher, Charles Lee

HAWARDEN
Stone, Merle Rufus

HITEMAN
Seidel, Earl Reinholdt

INDEPENDENCE
Roney, Katherine

IOWA CITY
Albert, Henry
Alexander, Clive Morris
Baker, Richard Philip
Brown, Fay Cluff
Cox, Arthur John
Cronin, Sarah Elizabeth
Dow, Edwin Arthur
Farr, Clifford Harrison
Fleming, Burton Percival
Ford, Arthur Hillyer
Fraser, Charles McLean
Giddings, Levi Alexander
Hayden, Beulah
Higbee, Frederick Goodson
Houser, Gilbert Logan
Howard, Campbell Palmer
Jepson, William
Karslake, William Jay
Kay, George Frederick
Knupp, Noah D.
Kuntz, Albert
Lambert, Byron James
Lambert, John Joseph
Macbride, Thomas Huston
Merrill, Dayton Eugene
Miles, Walter Richard
Moore, Fred
Nutting, Charles Cleveland
Pearce, James Newton
Prentiss, Henry James
Puckett, Ralph Clarkson
Raymond, William Galt
Reilly, John Franklin
Rigler, Edith Gertrude
Rockwood, Elbert William
Seashore, Carl Emil

IOWA CITY—Continued
Secrest, Charles Mahlon
Shimek, Bohumil
Shimek, Ella
Sieg, Lee Paul
Smith, Arthur George
Smith, Franklin Orion
Stewart, George Walter
Stoner, Dayton
Stromsten, Frank Albert
Stromsten, Minerva (Swaney) (Mrs. Frank A. Stromsten)
Thomas, Abram Owen
Truman, Orley Hosmer
Uhde, Irma Augusta
Van Epps, Clarence
Van Tuyl, Francis Maurice
Weld, Laenas Gifford
Wickham, Henry Frederick
Williams, Mabel Claire
Woodward, Sherman Melville
Wylie, Robert Bradford
Yocum, Alice Emily
Young, Frederick Charles
Yule, Mildred Rebecca

KEOKUK
Ketcham, Valentine Odell
Kornfeld, Harry
Schweier, Arthur

LAKEFIELD
Brauch, Emma Beth (Achenbach) (Mrs. E. B. Brauch)

MASON CITY
Albert, Frederick

MUSCATINE
Gardiner, Charles Rockwell

OSAGE
Crum, Lilah B.

OTTUMWA
Taylor, Maud Estella

PETERSON
Butler, Hortense

PRAIRIEBURG
Wilkinson, Mary Louise (Woods) (Mrs. Levi Wilkinson)

SIOUX CITY
Beck, William Edmund
McCarty, Lawrence Justin
McClintock, Calvin Terry
Stephens, Thomas Calderwood
Stiles, Harold

TABOR
Jewell, Susan Grace

TAINTOR
Ryan, John Gaston

TOLEDO
Kenoyer, Leslie Alva

WASHINGTON
Churchill, Edward Perry

WATERLOO
Burt, Austin

WESTGATE
Wente, Edward Christopher

KANSAS

BALDWIN
Porterfield, Roy Albert
Randall, David Lindsey

BLUE RAPIDS
Bartholow, Edmond Montgomery

BRADFORD
Willard, Charles Julius

CLAY CENTER
Stough, Howard

EMPORIA
Agrelius, Frank Ulysses Grant
Lowther, Lloyd Alonzo

FORT LEAVENWORTH
Chubb, Wistar Morris
Gibbs, George Sabin

KANSAS—Continued

HAVILAND
Fisher, Effie (Pyle)

HOLTON
Hunter, Madone Carington

HUMBOLDT
Byerley, Mable Rowena (Davis) (Mrs. W. A. Byerley)

INDEPENDENCE
Frichot, Bert Charles

KANSAS CITY
Greene, Marie Anna
Hodge, John Alfred
Thompson, Martha Alice
White, Edward Ambrose

LAWRENCE
Allen, Herman Camp
Ashton, Charles Hamilton
Bailey, Edgar Henry Summerfield
Barber, Marshall Albert
Baumgartner, William Jacob
Billings, Frederick Horatio
Brock, Frank Peterson
Boughton, Thomas Harris
Bushong, Francis William
Cady, Hamilton Perkins
Carothers, Estella Eleanor
Charles, Grace Miriam
Clarke, Helen
Corp, Charles Ives
Dains, Frank Burnett
Dalton, B. J.
Duncan, Robert Kennedy
Dunmire, Elijah Herbert
Dyche, Lewis Lindsay
Emerson, Herbert William
Gruber, Charles Merl
Guffey, Don Carlos
Havenhill, L. D.
Haworth, Erasmus
Hoad, William Christian
Hood, George Jussen
Hunter, Samuel John
Hyde, Ida Henrietta
Jackson, Henry Louis
Johnson, Clarence Anthony
Jordan, Herbert Edwin
Kester, Frederick Edward
Learned, Albert Preisach
McClung, Clarence Erwin
MacGregor, Hazel Hope
Marvin, Frank Olin
Moodie, Roy Lee
Morscher, Lawrence Norton
Nowlin, Nadine
Pitcher, Arthur Dunn
Redman, Lawrence, Vincent
Rice, Martin Everett
Rupert, Frank Finch
Sayre, Lucius Elmer
Shaad, George Carl
Sterling, Charles Morgan
Stevens, William Chase
Sudler, Mervin Tubman
Tibbetts, Ernest Roy
Tillotson, Edwin Ward
Todd, James Edward
Twenhofel, William Henry
Van der Vries, John Nicholas
Vawter, Will Elbert
Walker, Perley
Walling, Lalia Viola
Weidlein, Edward Roy
Weith, Archie James
Wenrich, David Henry
White, Edward Albert

LAWRENCE—Continued
White, Marion Ballantyne
Williams, Francis Xavier
Young, Clifford Caudy
Young, Clinton Mason

LEAVENWORTH
Barkmann, Ernest Henry

LYONS
Pulliam, Leonard

MACKSVILLE
Powell, Fred Cecil

MCPHERSON
Frizell, Arthur Bowes

MANHATTAN
Call, Leland Everett
Chase, Carl Fred
Davis, Wilmer Esla
Fitch, James Burgess
Ford, Carlotta Marks
Gilman, Ray Edwin
Headlee, Thomas J.
Hughes, Joshiah Simson
Miller, Edwin Cyrus
Nabours, Robert Kirkland
Roberts, Herbert Fuller
Scott, John William
Stevens, Neil Everett
Van Ewing, Perry
Waters, Henry Jackson
Wright, Turner Richard Haden

NEWTON
Wedel, Peter John

NEODESHA
Hill, Burritt Howell

OTTAWA
Judy, Wilbur Howden
Shirk, James Abraham Garfield

PAOLA
Barnhill, John Firmen

PIQUA
Clark, Earl Finley

PITTSBURG
Curfman, Lawrence Everett

ROSEDALE
Finney, Guy
Gibson, Edward Thomas
McCarty, Virgil
Smith, Delbert O.
Sutton, Walter Stanborough

ROSSVILLE
Miller, Henry Blackburn

SALINA
Harvey, John King

TABLE MOUND
Williams, Warren Benjamin

TOPEKA
Edmondson, Charles Howard
Esterly, Daniel Edward
Loper, Cleveland Scott
Obrecht, Rufus Chauncey
Schumacher, Ramon
Smyth, Lumina (Riddle) (Mrs. Bernard B. Smyth)
Tague, Edgar Lemuel
Twiss, Edith Minot
Young, Alexander Ririe

WICHITA
Brockway, Paul Lemon
Green, Wyman Reed
Williams, Djalma Downey

WINCHESTER
Curry, John Edward

KENTUCKY

FRANKFORT
Hoffman, Edson Allen

LEXINGTON
Matthews, Clarence Wentworth
Maxson, Ralph Nelson
Shull, Charles Albert
Surface, Frank Macy

LOUISVILLE
Caldwell, Morley Albert
Harris, Cebern Dodd

LOUISVILLE—Continued
Hathaway, Joseph Henry
Jennison, Ralph Drury
Roberts, Shelby Sandfley
Tileston, Leroy
Tislow, Oswald Albert

MARION
Sanders, Walter Murray

OWENSBORO
Jennison, Ralph Drury

LOUISIANA

ABBEVILLE
Eustis, Allan Chotard

ALEXANDRIA
Crew, Charles Corwin

BATON ROUGE
Bell, Albert Thomas
Edgerton, Claude Wilbur
Guell, Antonio
Kidder, Albert Franklin

BURNSIDE
McFarland, Charles Stone

NEW ORLEANS
Bean, Robert Bennett
Billingsley, James Wartelle
Bullard, H. Hays
Clo, J. Harry
Day, Reuben Noble
Grant, Ernest Holman
Gregory, William Benjamin
Hardesty, Irving
Loeber, Edith
Smith, Harrison

SHREVEPORT
Young, Daisy

MAINE

BRUNSWICK
Loomis, Nathaniel Edward

CASTINE
Wilson, J. Howard

ORONO
Aley, Robert Judson
Brown, Charles Barto
Childs, Albert Theodore
Chrysler, Mintin Asbury
Craig, Wallace
Curtis, Maynie Rose
Johannsen, Oskar Augustus
Lewis, Charles Edward
Patch, Edith Marion

ORONO—Continued
Pearl, Raymond
Tower, Bessie (Leeds) (Mrs. Gordon E. Tower)
Woodman, Leon Elmer

PORTLAND
Allen, John Howard

WATERVILLE
Obear, George Barrows
Parmenter, George Freeman
Roberts, Edwin Jay

WESTBROOK
Beeber, Samuel Jacob

MARYLAND

ANNAPOLIS
Loeb, Leo

BLACK RIVER
Gundlach, Henry Ralph

BALTIMORE
Barker, Lewellys Franklin
Barnett, Charles Ridgely, Jr.
Barnett, George DeForest
Billau, Lewis Scoville
Bronson, Edith
Browne, William Hand, Jr.
Clark, Eliot Round
Clough, Harry Duffield
Cohoe, Benson Ambrose
Conover, Henry H.
Cowles, Rhinehart Parker
Dandy, Walter Edward
Davis, Edwin Greene
Davis, John Staige
Essick, Charles Rhein
Esslinger, Edwin Walter
Evans, Herbert McLean
Gates, Frederick Lamont
Goetsch, Emil
Gorham, Lemuel Whittington
Graham, Clarence Flack
Hartzell, Walter Lewers
Hooper, Charles Warren
Jennings, Herbert Spencer
Joslin, Lulu Broadbent
Kellicott, William Erskine
Kemp, George Theophilus
King, Jessie Luella
Krause, Allen Kramer

BALTIMORE—Continued
Livingston, Burton Edward
Longley, William Harding
Mearns, Louis Zerega
Norris, Paul Elfred
Platt, Washington
Redelings, Leslie Hall
Rothrock, Irvin R.
Rouiller, Charles Augustus
Sellards, Andrew Watson
Van Vleck, Frank
Voorhees, Henry Belin
Watson, John Broadus
Weed, Lewis Hill
Whipple, George Hoyt

BRANDYWINE
Brooks, Ira Sanford

COLLEGE PARK
Appleman, Charles Orval

DARLINGTON
Edge, Walter Smith

GAITHERSBURG
Ross, Frank Elmore

HAVRE DE GRACE
Starr, William Parvin

PERRYVILLE
Stowe, Henry Daniells

PORT DEPOSIT
Harrison, Frederick Brown
Hutchinson, Lewis Orrin

SPARROWS POINT
Raidabaugh, John Adam

MASSACHUSETTS

AMHERST
Cobb, Charles W.
Doughty, Howard Waters
Foord, James Alfred
Gordon, Clarence Everett
Hall, Eliot Snell
Peters, Charles, Adams

ANDOVER
Boyce, Frederick May
Newton, Frederick Edwin

ARLINGTON
Weed, Robert Campbell

ATTLEBORO
Thompson, Ralph Cameron

AUBURNDALE
Jewett, Harold Frederick

BOSTON
Allington, Courtney Derby
Appleton, Paul
Bailey, Ervin George
Barnes, Joel Martin
Bernstein, Joseph
Blake, Lucien Ira
Blood, Alice Frances
Bresnahan, John Francis
Bugbee, Edward Everett
Burgess, Alexander Manlius
Burket, Ivan Roy
Burr, Frank Arthur
Cook, Ward Hance
Davis, Lewis
Denis, Willey
Edwards, Evie James
Eldredge, Alfred Henry
Faragher, Paul Vance
Faragher, Warren Fred
Fisher, Henry Donald
Fiske, Cyrus H.
Foster, Vernon S.
Frary, Charles Samuel
Fritch, Howard Fowler
Gallagher, Francis Edward
Gann, John Adams
Gilbert, Ralph Davis
Hale, Robert Sever
Hartwell, John Bryant
Hazen, Howard Spencer
Heuser, Chester Henry
Hewes, Fred Leland
Higbie, Henry Harold
Jackson, Dugald Caleb
Johnson, Franklin Paradise
Karsner, Howard Thomas
Kilgore, Alson Raphael
Knight, Ira Winsor
Koon, Sidney Graves
Kraus, Charles August
Lang, James Sherburne
Loughlin, Gerald Francis
MacLane, Stanley Robinson
Main, Roscoe Conkling
Marvin, Henry Howard
Medlar, Edgar Matthias
Newell, Lyman Churchill
Norton, John Foote
Nunez, Vasco Emilio
Overlander, Charles Leonard
Parker, William Huntington
Peters, Amos William
Porter, Charles Huntington
Randall, Merle
Rudd, Edward Irvine
Russell, Joseph Heywood
Schorer, Edwin Henry
Shimer, Hervey Woodburn
Smith, Theobald
Solomon, Harry Caesar
Terwilliger, David Mills
Thomson, Harry Freeman

BOSTON—Continued
Twomey, Francis Sylvestre
Warren, Charles Hyde
Warren, Edmund Leon
Wells, Roy Titus
West, Erastus Lovette
Williams, Leonard Worcester
Williston Arthur Lyman
Wilson, Edwin Bidwell

BROOKLINE
Haigler, Florence Harlow (Derby) (Mrs. Charles Edmund Haigler)

CAMBRIDGE
Adams, Comfort Avery
Barus, Maxwell
Bovie, William T.
Brown, John Howard
Brues, Charles Thomas
Bunker, John Wyman Miller
Cushing, Philip Stone
Daniels, Farrington
Davis, Donald Walton
Davis, Harvey Nathaniel
Davison, Donald Berryhill
Duncan, John Charles
East, Edward Murray
Graton, Louis Caryl
Gross, Alfred Otto
Harding, Adalbert
Johnson, Douglas Wilson
Jones, Grinnell
Kyriakides, Lucas Petron
Mann, William Montana
Marks, Lionel Simeon
Morgulis, Sergius
Morse, Harry Wheeler
Norton, Arthur Edwin
Nourse, Chester Linwood
Nusbaum, Christian
Osterhout, Winthrop John
Palache, Charles
Johnson, Douglas Wilson
Pound, Roscoe
Putnam, Frederic Ward
Raymond, Percy Edward
Robertson, William Rees
Sabine, Wallace Clement
Tyzzer, Ernest Edward

CHICOPEE FALLS
Sparrow, Stanwood Willston

DORCHESTER
Walton, Albert

EAST WALPOLE
Landon, Horace Zebina
Sands, Howard Emmet

EAST WATERTOWN
Tousley, Nelson Elbridge

FALL RIVER
Hicks, Leslie Robert

FITCHBURG
Barnes, William Oliver

HOPEDALE
Burnham, Edward Clifton

HOLYOKE
Blount, Rufus Frank
Boegehold, Carl Winter
Greenwood, Arthur

LAWRENCE
Ripley, Philip Franklin

LYNN
King, Harold Merriam

MEDFORD
Shrader, James Edmond

MILLBURY
Ryan, George Herbert

MILLERS FALLS
Alden, Edward Mooee

MASSACHUSETTS—Continued

NEWTON HIGHLANDS
Banfield, Frederick Eugene

NEWTONVILLE
Harrington, Charles Brigham

NORTHAMPTON
Brant, Laura Cinderella
Smith, Frances Grace
Snow, Julia Warner

PITTSFIELD
Blume, Louis Frederick
Currie, Neil, Jr.
Dickinson, William Jay
Paddock, Brace Whitman
Slade, Walter Clifton

QUINCY
Crain, John Jay

ROXBURY
Driske, Arthur H.

SHARON
Field, George Wilton

SHELBURNE FALLS
Hamilton, Edward Parmelee
Tuthill, James Foster

SOUTH EASTON
Pierce, Robinson

SOUTH HADLEY
Brightman, Charles Lewis
Carr, Emma Perry
Hayes, Samuel Perkins
Stokey, Alma Gracey
Talbot, Mignon

SOUTH HARWICH
Julien, Alexis Anastay

SWAMPSCOTT
Hamann, Henry George

TAUNTON
Grisé, Romeo Arthur

WATERTOWN
Duncan, Wiliam Wheeler
Flora, Charles Paxson
Whittemore, Herbert Lucius

WEBSTER
Goldthwait, Charles Francis

WELLESLEY
Ferguson, Margaret Clay
Gamble, Eleanor A. McCulloch
McDowell, Louise Sherwood
Raymond, Katherine Piatt
Snow, Laetitia Morris
Stevenson, Louisia Stone
Wiegand, Karl McKay
Wiegand, Maude (Cipperly)
(Mrs. Karl McKay Wiegand)

WELLESLEY—Continued
Willcox, Mary Alice

WESTFIELD
Robbins, Laurence Ballard

WEST LYNN
Moss, Sanford Alexander

WILLIAMSTOWN
Agard, Harry Leslie
Cleland, Herdman Fitzgerald
Freli, Janet May (Sheldon)
(Freli, Mrs. Theodore)
Mears, Brainerd

WOODS HOLE
Drew, Gilman Arthur

WORCESTER
Allen, Charles Metcalf
Baird, John Wallace
Bird, William Warren
Bonnet, Frederic, Jr.
Butterfield, Arthur Dexter
Calhane, Daniel Francis
Conant, Levi Leonard
Cummings, Herbert Kimball
Duff, Alexander Wilmer
Ewell, Arthur Woolsey
Fish, Elmer Henry
French, Arthur Willard
Gallup, David Lamprey
Goddard, Robert Hutchins
Harvey, John Chapin
Hoffman, Leland Silas
Hull, Albert Wallace
Hull, Mary Shore (Walker)
(Mrs. Albert W. Hull)
Haynes, George Henry
Ives, Howard Chapin
Jones, Arthur Taber
Jennings, Walter Louis
Martin, George Francis
Miller, Newton
Olshausen, George Robert
Palser, George Norman
Phelon, Joseph Oliver
Pierce, Clarence Albert
Read, Carleton Allen
Richey, Albert Sutton
Roys, Francis William
Smith, Alton Lincoln
Smith, Harold Babbitt
Stevens, Lewis Chester
Sweetser, Robert Chauncy
Williams, Frank Blair
Woodbury, John Edward
Young, Foster Verne

MICHIGAN

ALBION
Greene, Clarence Wilson

ANN ARBOR
Adams, Henry Fostor
Agnew, James Howard
Alden, Whiting
Allen, John Robins
Anderson, Henry Clay
Bailey, Benjamin Franklin
Baker, Horace Burrington
Barrett, Albert Moore
Bartell, Floyd Earl
Bauer, Owen Werner
Bigelow, Samuel Lawrence
Bragg, Edward Milton
Camp, Carl Dudley
Campbell, Edward DeMille
Carney, Robert John

ANN ARBOR—Continued
Case, Ermine Cowles
Clark, Robert Watson
Colby, Walter Francis
Cole, Harrie Newton
Cone, Lee Holt
Cook, Charles Wilfred
Cooley, Mortimer Elwyn
Cope, Otis Merriam
Cowie, David Murray
Crane, Harry Wolven
Cummings, Howard Hasting
Curtis, George Morris
Curtiss, Ralph Hamilton
Davis, Joseph Baker
Decker, Arthur James
Dunbar, Frances Jewett
Edmunds, Charles Wallis
Emswiler, John Edward

MICHIGAN—Continued

ANN ARBOR—Continued
Field, Peter
Finch, Frank Richard
Ford, Walter Burton
Garretson, William Van Nest
Gates, Frank Caleb
Gilbert, Quinter Olen
Glaser, Otto Charles
Gleason, Henry Allen
Glover, James Waterman
Gomberg, Moses
Greene, Albert Emerson
Grossmann, Herman John August
Guthe, Karl Eugen
Hale, William Jay
Hall, Arthur Graham
Hamilton, Stuart McCune
Hegner, Robert Wilhelm
Henderson, William D.
Hewlett, Albion Walter
Higbie, Henry Harold
Hildebrandt, Theophil Henry
Hobbs, William Herbert
Holland, Ray Kingsbury
Hubbard, Winfield Scott
Huber, Gotthelf Carl
Hunt, Walter Fred
Hus, Henri Th. Antoine de Leng
Hussey, William Joseph
Jickling, Robert Lee
Johnson, Laurence Crane
Johnston, Clarence Thomas
Kamperman, George Abel Paul
Kauffman, Calvin Henry
Kraus, Edward Henry
Langley, John Williams
La Rue, George Rogers
Leverett, Frank
Lind, Samuel Colville
Littleton, Jesse Talbot, Jr.
Lombard, Warren Plimpton
Love, Clyde Elton
Lovell, Alfred Henry
Marks, James Harmon
Marshall, Mark
McOmber, Loren Wallace
Mellencamp, Frank John
Nancrede, Charles Beylard de
Newcombe, Frederick Charles
Novy, Frederick George
Okkelberg, Peter Olaus
Otis, Charles Herbert
Parker, Ralzemond Drake
Patterson, George Washington
Perrine, James Owen
Peterson, Reuben
Pierce, Archie Burton
Pillsbury, Walter Bowers
Pollock, James Barkley
Randall, Harrison McAllister
Reed, John Oren
Reighard, Jacob Ellsworth
Rich, Daniel Leslie
Rich, Edward Dunbar
Riggs, Henry Earle
Roth, Filebert
Roth, George Byron
Rutherford, George Stanley
Ruthven, Alexander Grant
Sadler, Herbert Charles
Schlotterbeck, Julius Otto
Schmidt, Harry Burke
Scott, Irving Day
Shepard, John Frederick
Shull, Aaron Franklin
Sink, Emory Walter
Slocum, George
Smeaton, William Gabb
Spooner, Charles Willett
Stevens, Alviso Burdett, Jr.
Streeter, George Linius

ANN ARBOR—Continued
Tanner, Harry Laurence
Thompson, Crystal
Thorp, Lambert
Tilden, Charles Joseph
Van Zwaluwenburg, James Gerritt
Vaughan, Victor Clarence
Warren, Luther Fiske
Warthin, Aldred Scott
West, Clarence Jay
White, Alfred Holmes
Willard, Hobart Hurd
Williams, Gardner Stewart
Wuist, Elizabeth Dorothy
Young, Leigh Jarvis
Ziwet, Alexander
Zowski-Zwierzchowski, Stanislaus Jan

BATTLE CREEK
Benson, Walfred
Myers, Ralph E.
Thomas, Robert Richardson

BIG RAPIDS
Karshner, Clyde Fenworth
St. Peter, Wilfred Napoleon

DETROIT
Ayres, Louis Evans
Berry, Maxwell Rufus
Boxmeyer, Charles Herbert
Burton, Frank
Case, John Watrous
Closson, Oliver Eugene
Cooley, Thomas Benton
Coon, Thurlow Emmett
De Visser, John Henry
Diack, Archibald Warren
Fishleigh, Walter Turner
Fleshiem, Robert Stephenson
Flynn, James Howard
Garrels, John Carlyle
Gillett, Horace Wadsworth
Gillmore, Gertrude Assheton
Gutsche, Edward Jacob
Hastings, Donald Theodore
Helfman, John
Huff, Russell
Huntoon, Milton Byron
Irwin, Orlando W.
Jamieson, Andrew Douglas
Jones, Albert Barnett
King, Walter Edward
Levy, David J.
Loye, Benjamin W.
Mattern, Roy Edwin
McClelland, Carl C.
Miles, Ezekiel Jones
Miller, LeRoy F.
Morse, Plinn Frederick
Neerken, Adrian John
Norris, Paul Elfred
Norton, Henry Hazard
Nydegger, John
Pettengill, Irving Wilhert
Plumb, Roy Alfred
Russel, Sidney Rumney
Studer, Eliot William
Tinkham, Ralph Russell
Tracy, Kenneth William
Vaughan, John Walter
Vaughan, Victor Clarence, Jr.
Vinton, Warren Jay
Walker, James Herbert
Walton, Hiram Lessiter
White, Eli
Wilhelm, Eugene B.
Wood, Cooper
Woolfenden, John Joseph
Zimmerschied, Karl Wilhelmj

MICHIGAN—Continued

EAST LANSING
Bessey, Ernst Athearn
Bissell, George Welton
Bouyoucos, George John
Coons, George Herbert
Giltner, Ward
Hibbard, Rufus Percival
Hunt, Agnes
Huston, Ralph Chase
Marti, William Christoph
Melick, Cyrus Alan
Pettit, Rufus Hiram
Robinson, Charles Summers
Shafer, George Daniel

FLINT
Baumgardner, John Andrew
Gomph, Clarence Jeremiah
Stimson, Morris Henry

GLADSTONE
Katzenstein, Sidney W.

GRAND LEDGE
Niles, Byron Deloss

GRAND RAPIDS
Baker, Abel James
Baldwin, Melvin Dana
Billings, Elton Pope
Darling, Lewis Andrew
Gordon, Thomas DeWitt
Hefferan, Mary
Parsons, Lewis Abraham
Smith, Thomas Albert

HASTINGS
McNall, Jessie Jones

HILLSDALE
Alger, Harley Clifford

HOUGHTON
Anderson, William
Denton, Frederick W.
Haigler, Florence Harlow (Derby) (Haigler, Mrs. Charles E.)
Mendelsohn, Albert
Paine, Francis Ward
Sperr, Frederick William

ISHPEMING
Hawley, Charles Burridge
Taylor, Carl A.

JACKSON
Burd, Edward Morris
Davock, Harlow Noble
Maytharm, Walter John
Parnall, Christopher Gregg
Perkins, Wendell LeRoy
Pierce, Hugh Marion

KALAMAZOO
Bach, Ellen Botsford
Cooper, Grace Beers
Fleming, Harry Cowles
Harvey, LeRoy Harris
Ward, Leslie Henry

KALAMAZOO—Continued
Willey, Vernon Justice
Worth, Earl N.

LANSING
Dixon, Robert Livingston
Smith, Richard A.
d'Zeeuw, Richard

LAKE LINDEN
Benedict, Centennial Harry

LESLIE
Greene, Arthur Emery

MANISTIQUE
Schoemaker, William Ross

MARQUETTE
Fracker, George Cutler
Hebb, Thomas Carlyle
Hebb, Evelyn Sherwell Hayden (Hebb, Mrs. Thomas Carlyle)

MIDLAND
Barstow, Edwin Ormond
Dow, Herbert Henry
Griswold, Thomas, Jr.
Strosacker, Charles John
Wallis, Roy Clarence

MT. PLEASANT
Billings, Marion LeRoy
Calkins, R. D.

MUSKEGON
Bates, Albert Henry
McKee, Frank Eugene
Wilson, Sherman Ray

NEGAUNEE
Miller, Edgar Allan

NILES
Kendall, Valerius Horatio

OWOSSO
Arnold, Harry Loren

RIVER ROUGE
Outwater, Olive E.

SAGINAW
Palmer, Russel Burr
Sample, John Thomas

SAULT STE. MARIE
Edmands, Horace Matthew
French, Edwin Linton
Strong, Sidney Davis

THREE RIVERS
Bliss, Guy L.
Hovey, William Simmons

TRI-MOUNTAIN
Work, Paul Bartholomew

WYANDOTTE
Vorce, Lafayette Denton

YPSILANTI
Bowen, Wilbur Pardon

MINNESOTA

ADAMS
Smith, Ernest Vernon

ALBERT LEA
Jaquess, Agnes

AURORA
Poore, Orson Birney

BIWABIK
Stake, Alma Louise

BRAINERD
Donovan, Percy Williams
Ide, Arthur Wheaton

CLOQUET
Hartley, Eugene C.

COLERAINE
McCullough, Albert Steele

CROOKSTON
Bilsborrow, James D.

DULUTH
Bjorge, Oscar Bernard
Buck, Frederick William
Downing, Frank Eugene
Gaumnitz, Florence
Jones, Bessie Emily (Bowman) (Jones, Mrs. Lorin H.)
Kelly, Earl Wallace
Marble, Ralph

MINNESOTA—Continued

DULUTH
Ringsred, Arthur Christian
Owens, William Abbott
Tuohy, Edward Leo
VanCleef, Eugene

FAIRFAX
Walker, George Hamilton

FARIBAULT
Crawford, Wallace T.
Huxley, Frederick R.
Kuhlmann, Fred

FERGUS FALLS
Baker, Acel Conrad
Grass, Charles Frederick

GAYLORD
Johnson, Anna Josephine

GLENCOE
Nickerson, Bernard S.

GRACEVILLE
Cox, Richard Ferguson

HIBBING
Wesbrook, Donald McDermid

HOPKINS
Souba, W. H.

HUTCHINSON
Berger, Nanda M.

LUVERNE
Downey, Katherine Melvina

MINNEAPOLIS
Allen, Harry Winslow
Allen, William Fitch
Anderson, Deborah M.
Anderson, John G.
Appleby, William Remsen
Ball, Frank Morris
Bartholow, Claude Apheus
Bass, Frederic Herbert
Bauer, George Neander
Bean, Arthur Neal
Becker, George
Bell, Elexious Thompson
Bennett, Cora
Bliss, Frank Walker
Bowles, Oliver
Brenton, Benjamin Francis Parlett
Brooke, William Ellsworth
Brown, Edgar Dewight
Brown, John C.
Bruce, Rosamond (Thompson)
(Bruce, Mrs. Charles A.)
Burgum, Harry Pitkin
Bussey, William Henry
Butters, Frederic King
Caplin, Jessie F.
Chalmers, Charles Henry
Christianson, Peter
Clements, Edith (Schwartz)
(Mrs. Frederic Edward Clements)
Clements, Frederic Edward
Cohen, Lillian
Cole, Ruth Fitch
Constant, Frank Henry
Cooke, Louis Joseph
Cooper, Thomas Poe
Corbett, J. Frank
Craig, Robert
Cutler, Alvin Sayles
Dalaker, Hans H.
Davis, Perley Alton
Derby, Ira Harris
Dorsey, Maxwell Jay
Downey, Hal
Downey, John Florin
Drake, Charles Ralph
Eddy, Henry Turner
Edmonds Irene (Radcliffe)
(Mrs. F. N. Edmonds)

MINNEAPOLIS—Continued
Emerson, Byron Todd
Erikson, Henry Anton
Evans, Nevade Sutherland
Ewy, Edwin Walter
Fidlar, Edward
Finke, Walter J.
Flather, John Joseph
Frankforter, George Bell
Frary, Francis Cowles
Frazier, William Hardy
Frear, Jenness B.
Gates, Frederic William
Gibson, Robert Banks
Grout, Frank Fitch
Hall, Christopher Webber
Hamilton, Arthur Stephen
Hanauer, Monroe
Harding, Everhart Percy
Harrington, Guy Pirnbrake
Hartzell, Mary Kezie
Haynes, Arthur Edwin
Head, George Douglas
Herrick, Carl Albert
Hibbard, C. Truman
Hickok, Jessie (Stevens)
Hickok, Mrs. Harvey M.)
Hill, Hibbert Winslow
Hilton, William Atwood
Hoag, William Ricketson
Holman, William Frank
Holway, Edward Willet Dorland
Houston, Charles Kent
Hovda, Olaf
Huff, N. L.
Hummel, John Adolph
Hunter, William Hammett
Jaquet, George Emile
Johnson, A. Walford
Johnson, Charles Eugene
Johnston, John Black
Jenks, Albert Ernest
Jensen, Estelle Louise
Jensen, John Arthur
Kavanaugh, William Harrison
Keyes, Ruth (Eddy)
(Mrs. Chas. F. Keyes)
Kircher, Frank J.
Kirchner, William Herman
Kovarik, Alois Francis
Kunze, William Frederick
Leavenworth, Francis P.
Leavitt, Clara K.
Lee, Thomas George
McCarty, Edward Prosper
McDaniell, Orianna
MacDermid, Kate
McKeehan, Louis Williams
MacMillan, Conway
McMillan, Franklin R.
Magnusson, Gustav Alfred
Maland, Clarence
Marsh, Richard Dana
Martenis, John Van Sickle
Maxeiner, Stanley R.
Miner, James Burt
Misz, Alice Margaret
Mohler, Bruce Monroe
Mullin, Robert Hyndman
Nachtrieb, Henry Francis
Newkirk, Burt Leroy
Nicholson, Edward Everett
Nye, Lillian L.
Otto, Robert Walter
Parcell, John Ira
Paulson, Marjorie (Cole)
(Mrs. Clarence A. Paulson)
Pease, Levi Beckley
Pitchford, G. Leonard
Poppe, Frederick Harold
Poppe, Frederick

MINNESOTA—Continued

MINNEAPOLIS—Continued
Priester, George Cornelius
Robertson, Harold Eugene
Rosendahl, Carl Otto
Rowley, Frank B.
Ryan, William Thomas
Sardeson, Frederick William
Sedgwick, Julius Parker
Scammon, Richard Everingham
Schlutz, Frederick William
Scott, Frederick Hughes
Schrader, Herman F.
Schumacher, John Henry
Shenehon, Francis Clinton
Shepardson, George Defrees
Shipley, Sylvanus Carl
Shoop, Charles Franklin
Shumway, Royal Raiss
Sidener, Charles Frederick
Sigerfoos, Charles Peter
Slobin, Herman L.
Smith, Charles Horton
Smith, Roy Howard
Snyder, Harry
Soper, Edward Kirke
Souba, Frederick J.
Soule, Stephen Barber
Springer, Frank Wesley
Stacy, Elmer Neill
Stakman, Elvin Charles
Stewart, Alexander
Stewart, John T.
Sundt, Matthias
Svendson, George Peter
Swenson, David Ferdinand
Tilden, Josephine Elizabeth
Underhill, Anthony Lispenard
Ungerman, Carl Mugg
Vincent, Jay Carter
Walker, George Thompson
Walker, George Warren
Washburn, Frederick Leonard
Webber, Frederick Walter
Wentling, John Philip
Wesbrook, Frank Fairchild
West, Rodney Mott
White, Solon Marx
Whittaker, H. O.
Wilhoit, Albert Davis
Winchell, Newton Horace
Woodrow, Herbert
Woods, Albert Fred
Wyman, Alanson Phelps
Zeleny, Anthony
Zeleny, John

MOOREHEAD
Freeman, Frances Rebecca
Hockett, Sebern Waldo

NEW LONDON
Oppegard, Manford O.

NORTHFIELD
Cowling, Donald John
Dungay, Neil Stanley
Exner, Franz Frederick
Glasoe, Paul Maurice
Kent, Carleton Volney

PIPESTONE
Arzt, Emmanuel Arthur

RED WING
Smith, Paul Sherbourne

ROCHESTER
Smithies, Frank William
Steinke, Carl Rossow
Wilson, Louis Blanchard
Zander, Charles H.

SLEEPY EYE
Hillesheim, Clara
Schmidt, Gottfried

ST. ANTHONY PARK
Wilson, Archie Dell

ST. CLOUD
Hone, Daisy S.
Johnsrud, Iver F.
Sutton, Charles Stewart

ST. HILAIRE
Dahl, Christen Frederick

ST. PAUL
Beckjord, Walter Clarence
Berger, Ella Gustavia
Bull, Coates Preston
Bracken, Henry Martyn
Briggs, Florence Mayfred
Campbell, Albert A.
Campbell, John E.
Cheyney, Edward Gheen
Cole, Wallace
Dobbin, Emily Elisabeth
Fanning, Mary Gilmore
Freeman, Edward Monroe
Gaumnitz, Daniel Asher
Haecker, Theophilus Levi
Hartwell, George Wilbur
Hoff, Alfred
Jackson, Earle Daniel
Kennedy, William Walker
Ladd, Albee Lovejoy
Larsen, Martin L.
Moore, W. A.
Olander, Joshua Edwin Emanuel
Otto, Frederick Arthur
Robbins, Orison B.
Roehrich, Victor H. Martini
Ruggles, Arthur Gordon
Shepard, George M.
Smith, Byron Eton
Smith, Roy Howard
Stanton, Raymond Edward
Thompson, Mackay James
Walker, Frank Bates
Yager, Louis

STILLWATER
Veblen, Andrew Anderson

TWIN VALLEY
Nilson, Wilhelm

VIRGINIA
Partridge, Jarvis Montgomery

WORTHINGTON
Mason, Frank Melville

MISSISSIPPI

ABERDEEN
Ewing, Early Cunningham

AGRICULTURAL COLLEGE
Brown, Harry Bates
Logan, William Newton

AGRICULTURAL COLLEGE—Continued
Reid, Clarence Erle

JACKSON
Kirkpatrick, Walter Gill

MISSOURI

CAPE GIRARDEAU
Wagner, Claude L.

CENTRALIA
Starr, Chester Gibbs

COLUMBIA
Allison, Harry Orson
Ames, Lewis Darwin
Backus, Lee Seldon
Branson, Edwin Bayer
Brown, William George
Calvert, Sidney
Calvert, William Jeptha
Chandler, William Henry
Charters, Jessie (Allen)
(Mrs. Werrett Wallace Charters)
Connaway, John Waldo
Curtis, Winterton Conway
Dodds, Gideon Stanhope
Dolley, David Hough
Douglass, Thomas Rankin
Dunkel, Otto
Durand, Elias Judah
Eckles, Clarence Henry
Fessenden, Edwin Allen
Flowers, Alan Estis
Ford, Lester R.
Gainey, Percy Leigh
Gibson, Robert Banks
Greene, Charles Wilson
Haseman, Leonard
Haigh, Leonard Dixon
Hedrick, Earle Raymond
Hibbard, Herbert Wade
Hill, Agnes Sime Baxter
(Mrs. Albert Ross Hill)
Hill, Albert Ross
Hogan, Albert
Howard, Walter Lafayette
Hutchison, Claude Burton
Hyde, Abraham Lincoln
Ingold, Louis
Jackson, Clarence Martin
Keene, Mary Lucille
Kellogg, Oliver Dimon
Lefevre, George
Lowrey, Lawson Gentry
McNatt, Homer Elkanah
Marbut, Charles Fletcher
Meyer, Max
Miller, Merritt Finley
Miller, Walter McNab
Moulton, Charles Robert
Mumford, Frederick Blackmar
Noyes, Guy Lincoln
Palmer, Leroy Sheldon
Pyle, William Henry
Reed, George Matthew
Reese, Herbert Meredith
Rentschler, Harvey Clayton
Rodhouse, Thomas Jacob
Root, Ralph Eugene
Schaefer, Oscar Charles
Schlundt, Herman
Shaw, Howard Burton
Steele, Matthew
Stewart, Oscar Milton
Stokes, Stanley
Tanreuther, George Washington
Tarr, William Arthur
Trowbridge, Perry Fox
Vanatta, Elmer Elsworth
Weaver, Luther Abraham
Weinbach, Mende Penco
Weiss, Albert Paul
Westfall, Wilhelm David Allen
Wheelock, Frank Elbert
Whitlow, Joseph Andrew
Whitten, John Charles
Woodward, Edwin Garder

DONIPHAN
Martin, Charles Knox

FLAT RIVER
Ring, Ambrose Ely
Stannard, Earl Tappan

JOPLIN
Cook, Frederick Stephen
Saathoff, George Webster

KANSAS CITY
Burns, Clinton Sumner
Castle, Otto Leslie
Cross, Roy
Duke, William Waddell
Ellis, George Ezra
Emley, Samuel Charles
Farwell, Elmer Selah
Goodman, James Franklin
Gustafson, Carl Frederic
Hardesty, Shortridge
Harrington, John Lyle
Hoxie, George Howard
Kackley, Walter John
Kizer, Raymond Alvan
Lee, Colin Kingsley
Long, Verne Vere
Lusk, Charles Winslow
McDonnell, Robert Emmett
McVey, Karl Absalom
Medes, Grace
Meyers, Alfred Moyer
Nisbet, Verner
Ogden, Floyd Price
Palmer, Walter Kiefer
Prince, John Walter
Rinker, (Fenner) Hattie
(Rinker, Mrs. Robert L.)
Russell, George Silas
Schell, Edward John
Schrenk, Trifon von
Schumacher, Ramon
See, Russell Alva
Worley, John Stephen

KENNETT
Elsea, Earl Newton

LEXINGTON
Rogers, Hugh Chilton

LIBERTY
Crossley, Moses Leverock
Goodson, William Hammack

MARSHALL
Seawell, Benjamin Lee
Stephens, Virgil Ray

MARTIN CITY
Rusk, Earl Wilson

MONETT
Meany, James M.

PARKVILLE
Findlay, Merlin Chamberlin

RIDGEWAY
Walker, Lora Hennessey
(Walker, Mrs. J. H.)

ROLLA
Greene, Frank Cook

SPRINGFIELD
Brooking, Joseph Hugh
Finkel, Benjamin Franklin
Fitch, Ruby
Hall, Edward Bennington

ST. JOSEPH
Farnum, Ellen (Pendergast)
(Farnum, Mrs. A. W.)
Favor, Ernest Howard
Good, Clarence Allen
Seitz, William Kerlin

MISSOURI—Continued

ST. LOUIS
Abbott, James Francis
Alford, Leland Barton
Alt, Arnold Dettman
Baldwin, Frederick Amos
Bowles, John Davis
Brown, Orville Harry
Coburn, Maurice
De Witt, Lydia Maria Adams (DeWitt, Mrs. Alton D.)
Dock, George
Drushel, J. Andrew
Eales, Herbert William
Eddy, Ernest Arthur
Edgar, Thomas Oscar
Edsall, David Linn
Emig, William Harrison
Emmel, Victor Emanuel
Engler, Edmund Arthur
Erlanger, Joseph
Fischer, Robert
Fleisher, Moyer Springer
Galt, Charles Elijah
Garrey, Walter Eugene
Gill, Charles M.
Gould, Myrtle Pearl (Campbell) (Mrs. Benjamin B. Gould)
Hardy, Chester Harvey
Hilliard, Frank Wyman
Holman, Minard Lafever
Hopkins, Ross
Huntington, Albert Henry
Jackson, Dennis Emerson
James, George Oscar
Jolley, Harold Dean
Kaiser, William Henry
Kammerer, Alfred Lewis
Keiser, Edward Harrison
Kessler, John Jacob, Jr.
Kirchner, Walter Charles George
Kunkel, Louis Otto
Kuntz, Guy Theodore
Lamke, George William
Langsdorf, Alexander Suss
Lindsay, George Allan
Loeb, Leo
Losse, Louis Henry
Lyon, Elias Potter
McCourt, Walter Edward

ST. LOUIS—Continued
McGuigan, Hugh
McMaster, LeRoy
Mann, Ned Chester
Marietta, Clyde Orlando
Mathiason, Gertrude Karen
Moody, Seth Enoch
Moore, George Thomas
Morris, Roger Sylvester
Myer, Max Washington
Neilson, Charles Hugh
Nipher, Francis Eugene
Nolte, August George
North, William Atkinson
Ohle, Ernest Linwood
Ohlweiler, William Woodward
Opie, Eugene Lindsay
Pearse, Arthur Sperry
Rayworth, Joseph Chappell
Richards, Ethel Leigh
Ringer, Frank
Roever, William Henry
Rosing, Marjory Scheel
Sackett, Clark Harold
Schoemaker, Daniel Martin
Schramm, Jacob
Schrenk, Hermann von
Shaffer, Philip Anderson
Shepherd, Charles William
Smith, Frank Edwin
St. John, Richard Collier
Terry, Robert James
Thompson, Charles Henry
Timmerman, Arthur Henry
Trelease, William
Turner, Charles Henry
VanOrnum, James Lane
Veeder, Borden Smith
Waldo, Clarence Abiathar
Wallace, Erwin Van Doren
Woodward, Calvin Milton
Yates, Clinton Talbot

WARRENSBURG
McAllister, Cloyd North
Stigall, Bennett Merriman

WEBB CITY
Williams, Bruce

MONTANA

ANACONDA
Laist, Fred

BILLINGS
Garnsey, William Smith, Jr.
Sneckenberger, Earl Miner

BOZEMAN
Chesnut, Victor King
Spaulding, Milo Herrick
Sullivan, George Leonard
Thaler, Joseph Auken
Weatherhead, Drury Lee

BUTTE
Billingsley, Paul
Bowman, Charles Henry
Cahoon, Charlotte Deming
Dow, James Chase
Fear, Lyle Gordon
McGill, Caroline
Rodes, Charles Bradford

GREAT FALLS
Church, John Adams

GLENBEG, WICKES
Robison, Archer R.

HAUSERLAKE
Stussy, William

HAVRE
Haverson, Henry David

HEDGESVILLE
Vasku, Frank

HELENA
Gerry, Martin Hughes
Pratt, Arthur Clarence
Smyth, Arthur Porter

HYSHAM
Buckingham, Henry Hine

LAND COULEE
Fugman, Victor Charles

LIBBY
Ransom, Webster Hamilton

MILES CITY
Buskirk, William Henry

MISSOULA
Greely, William Beckhout
Harkins, William Draper
Kirkwood, Joseph Edward
Rowe, Jesse Perry
Sibley, Robert

MOORE
Manchester, James Eugene

ST. IGNATIUS
Prendergast, Arthur

VIRGINIA CITY
McConnell, Robert Earll

NEBRASKA

AGATE
Cook, Eleanor (Barbour)
(Cook, Mrs. Harold James)

ASYLUM
Pilsbury, Lawrence Bell

BELLEVUE
Tyler, Ansel Augustus

BLAIR
Capps, Earl Vanhise

CLARKS
Little, Donna Lavonne (Withey)

CRAIG
Anderson, Charles Edward

FREMONT
Johnson, Earle George

HAVELOCK
Forman, William Olivet

LINCOLN
Almy, John Edwin
Alway, Frederick James
Angle, Edward John
Avery, Samuel
Barker, Franklin Davis
Barbour, Carrie Adeline
Barbour, Erwin Hinkley
Bengtson, Nels August
Bessey, Charles Edwin
Borrowman, George
Bouton, Rosa
Boyce, John Shaw
Brenke, William Charles
Bruner, Lawrence
Burnett, Edgar Albert
Candy, Albert Luther
Chase, Leon Wilson
Chatburn, George Richard
Condra, George Evert
Dales, Benton
Davis, Ellery Williams
Emerson, Rollins Adams
Engberg, Carl Christian
Fordyce, Charles
Fossler, Mary Louise
Frankforter, Clarence Jackson
Gere, Mariel Clapham
Gilmore, Melvin Randolph
Guenther, August Ernest
Hilton, David Clark
Hinman, Alice (Hamlin)
(Hinman, Mrs. Edgar Lenderson)
Hoagland, Albert Leroy
Hoff, Robert Lee
Hollister, Vernon Leo
Hopt, Erwin
Howard, Robert Francis
Kiesselbach, Theo Alexander
Kohn, Nella Gabrielle (Schlesinger)
Laughlin, Joseph William
Loveland, George Andrew
Lyman, Rufus Ashley
McComb, Harold Edgar
Martin, Wade Randall
Mickey, Clark Edwin
Mitchell, Claude William
Moore, Burton Evans
Morse, George Hart
Nicholson, Henry Hudson
Pepperberg, Roy
Pool, Raymond John
Powers, Joseph Horace
Schramm, Eck Frank
Shaw, Ora James

LINCOLN—Continued
Skinner, Clarence Aurelius
Sponsler, Olenus Lee
Stout, Oscar Van Pelt
Sturdevant, LaZelle Brantly
Swenk, Myron Harmon
Swezey, Goodwin DeLoss
Tate, John Torrence
Trumbull, Robert Samuel
Tuckerman, Louis Bryant
Waite, Herbert Harold
Walker, Elda Rema
Walker, Leva Belle
Weaver, John Ernest
Webster, Edith Leonore
Westgate, Vernon Vilas
Wilcox, Edwin Mead
Willard, William Albert
Wolcott, Robert Henry
Zimmer, John Todd

LONG PINE
Wortman, John L.

McCOOK
Jenkins, William Gibson

MARTELL
Moore, William Henry Harrison

MILLARD
Fossler, John Jacob

NORMAL
Ames, Adeline Sarah

NORTH PLATTE
Birge, Alice Miranda
Welch, Hershey Samuel

OAKLAND
Swenson, Samuel August

OMAHA
Anderson, William Nance
Bennett, Charles Abel
Bourg, Joseph Nicholas
Davis, Byron Bennett
Denny, Frank Earl
Ernst, Flora Grace
Hamilton, William Garfield
Hoffhine, John
Lieber, Charles
Lott, Antone Lyman
Noyes, Hiland Bachellor
Pelster, Edwin Rudolph
Peterson, Alfred Olaf
Ross, Samuel Holcomb
Rubendall, Clarence
Senter, Herbert Almon
Stebbins, Eunice
Stringer, Caroline Effie
Tucker, James C.

ORD
Almy, Billings Grinnell
Squires, David Henry

PERU
Hofman, Fred Wenzl

SCHUYLER
Nieman, Henry William

STROMSBURG
Boostrom, Emil August

UNIVERSITY PLACE
Latimer, Homer Barker
Scarborough, Ray James
Williams, Cyrus Vance

YORK
Ryan, Walter J.

NEVADA

ELY
Dobbins, John Leslie
Lakenan, Cornelius B.
EUREKA
Aspinall, Rupert Frederick
GOLDYKE
Bishop, Wheeler Scott
McGILL
Mucklow, Wilford Barber
RENO
Hartman, Leon Wilson
Haseman, Charles
Johnston, Oscar Perry
RENO—Continued
Jones, J. Claude
Mack, Winfred Berdell
Smith, William Sydney Tangier
Young, George Joseph
ROUND MOUNTAIN
Ernest, Richard Hermann
TONOPAH
Elftman, Arthur Hugo
WONDER
Burgess, John Albert
YERINGTON
Weck, Charles Albert

NEW HAMPSHIRE

CLAREMONT
Walker, Allison
CONCORD
Hirst, Edgar Clarkson
Nelson, Theophilus
DUNHAM
O'Kane, Walter Colline
DURHAM
Black, Caroline Anna
Brooks, Charles
Gibbs, Perla (Bowman)
(Gibbs, Mrs. Wm. David)
Gibbs, William David
Jackson, Alma Drayer
(Jackson, Mrs. C. Floyd)
Jackson, Cicero Floyd
Katz, Sidney Hershberg
Perley, George Arthur
DURHAM—Continued
Pickett, Bethel Stewart
Taylor, Frederick Wellington
HANOVER
Bingham, Walter VanDyke
Dines, Charles Ross
Goldthwait, James Walter
Haskins, Charles Nelson
Nichols, Ernest Fox
Pitcher, Arthur Dunn
Proctor, Charles Albert
Stewart, Colin Campbell
Stetson, Harlan True
Young, John Wesley
MILTON
Barrows, Walter Irving
Reid, Alexander Hugh
NEW LONDON
Hall, Henry Jewett

NEW JERSEY

ATLANTIC CITY
Wescott, William Carter
BAYONNE
Dodge, Francis Despard
McAfee, Almer McDuffie
MacKenzie, Kenneth Gerald
Thompson, John Fairfield
BLOOMFIELD
Hall, Roy Dykes
Harskeeper, William Gibbons
Hiatt, Cassius Eugene
Marbaker, Edward Ellsworth
Meyer, John Franklin
CAMDEN
Howe, Samuel Purdy
CAPE MAY COURT HOUSE
Geyer, George Washington
CHATHAM
Hewitt, Charles Elbert
CHROME
Duffy, Edward Allen
COLLINGSWOOD
Garland, Claud Mallory
CONVENT STATION
Dorety, Sister Helen Angela
DOVER
Ayer, William Travis
Canfield, Frederick A.
Willcox, Oswin William
EAST ORANGE
Berry, Morphy Edison
Dellenbaugh, Frederick S., Jr.
Higby, Seth Morton
Hill, Ernest Rowland
Parker, John Emilius
Porter, Ethel (Chamberlin)
EAST ORANGE—Continued
Steuber, Henry John
Van Duyne, Wilmer Charles
Williamson, George
EDGEWATER
Carleton, Robert Andrew Wood
ELIZABETH
Miller, Mary Farrand (Rogers)
(Miller, Mrs. Wilhelm)
FLEMINGTON
Ludy, Albert Kienzle
FRANKLIN FURNACE
Johnson, Arthur Michael
GLOUCESTER
Breckenridge, James Miller
White, Arthur Jennings
GLOUCESTER CITY
Knoedler, Elmer Louvestus
Palmer, Howard Earle
HAMSON
Freeman, Herbert Augustine
HARRISON
Amrine, Thomas Hamer
Frear, Henry North
HOBOKEN
Hodge, Percy
Woods, Samuel Hamilton
JERSEY CITY
Eurich, Frank, Jr.
Graham, Margaret
LONG BRANCH
Flowers, Dean Wilcox
MAPLEWOOD
Chamberlain, Aimes Reading

NEW JERSEY—Continued

MARTINSVILLE
English, Harry Crawford

MILLBURN
Jewett, Fannie Cornelia Frisbie (Jewett, Mrs. Frank Baldwin)

MONTCLAIR
Bedell, Raynor Monroe
Hart, Howard Farnum
Leonhauser, Harry Alexander
Kent, William
Newell, William
Walker, Ralph Eric

NEWARK
Benham, Harrison Merwin
Bixel, Edward C.
Blood, Bryant Harmon
Coe, Frederick Sears
Darrow, Wirt Edward
Gay, Frazer Walker
Hinsdale, Paul Milton
Krementz, Richard
Losee, Frank Ira
Martin, Frank
Merz, August
Olshausen, George Robert
Sargent, Charles Lawrence
Sinclair, J. Edwin
Smith, Temple Clifford

NEWARK
Thorp, Isaac Jay
Willard, Frederic Wilson
Wilson, Cecil Floyd

NEW BRUNSWICK
Chidester, Floyd Earle
Cook, Melville Thurston
Davis, Kary Cadmus
Lipman, Jacob Goodale
Palmer, Erik Schjoth
Smith, Ralph Ogden
Van Dyck, Francis Cuyler

NEW LISBON
Chambers, Franklin Smith

ORANGE
Beach, Edwin Donald

ORANGEBURGH
Mettler, Arthur J.

PALMYRA
Hitch, Lola Sevilla

PATERSON
Hilferty, Charles Dutton
Trowbridge, Elisha Grant

PERTH AMBOY
Fisher, Henry Wright
Lee, Engbert A.
McNitt, Robert Joseph
Merriss, Marion Hawthorne

PERTH AMBOY—Continued
Seil, Harvey Ambrose
Wilson, Clarence Edgar

PHILLIPSBURG
Redfield, Snowden Bayard
Winslow, George William

PLAINFIELD
Anthony, William Henry
De Lamater, Van Ness
Hopton, Lemuel Robert

PLAINSBORO
Jeffers, Henry William

PRINCETON
Anderson, Walter Edmund
Bennett, Albert Arnold
Birkhoff, George David
Conklin, Edwin Grant
Harvey, Edmund Newton
Heaps, Claude William
Hulett, George Augustus
Kampmeier, Otto Frederic
Martin, James Cook
Shapley, Harlow
Sinclair, William John
Smith, Keith Kuenzie
Smyth, Charles Henry, Jr.
Suydam, Vernon Andrew
Thomas, Phillips
Veblen, Oswald
Williams, Kenneth Powers

RAHWAY
Murray, Benjamin Lindley

RIDGEWOOD
Hutton, Robert Leroy

RIVERSIDE
Pitts, Robert Mackey

SEWAREN
Lacy, Burritt Samuel

SUMMIT
Merriam, Henry Franklin

SUSSEX
Peck, Ellery Newell

TRENTON
Bellis, Horace Doolittle
Braunworth, Percy Lewis
Moore, Emmeline

TRENTON
Morrison, Max Philip
Sanders, Walter Edward
Vermuele, Cornelius Clarkson

TRENTON, JUNCTION
Secor, Wandell B.

WEST ORANGE
Geiger, George Augustus

WHARTON
Menefee, Arthur B.

NEW MEXICO

AGRICULTURAL COLLEGE
Burkey, Joseph Raymond
Hammond, Howard Spurr

ALBUQUERQUE
Angell, Martin Fuller
Bryan, Kirk
Recknagel, Arthur Bernhard
Weese, Asa Orrin

CLOVIS
Hinman, Harry Winfield
Lank, William John

HURLEY
Jourdin, Willis Wallace

LAS VEGAS
Springer, Frank

SACARRO
Coghlan, Byron Kemp
MacKay, Thomas Calvin

SANTA FE
Neel, Charles Herbert

NEW YORK

ADAMS
Penney, Albert Silas
ALBANY
Adey, William Henry
Armer, Hiley Newton
Boss, Lewis
Berry, John McWilliams
Bradley, Theodore James
Cameron, Edward Madison
Carpenter, Campbell, Colon
Carpenter, William Morgan
Chapman, Arnold Goodwin
Cleveland, H. Burdett
Cooper, Charles Proctor
Deutschbein, Harry Johnson
Dunham, Caroline Louise (Allen) (Mrs. Frederic G. Dunham)
Eames, Frederick Marshall
Felt, Ephraim Porter
Hartnagel, Chris Andrew
Kelley, Frederick Williams
Kelly, John Francis
Leighton, Henry
McClellan, William
McKeefe, Edward Patrick
Miller, Edward Waite
Miller, Harlan Dewey
Myers, Victor Caryl
Newland, David Hale
Pearson, Raymond Allen
Peck, John Calvin
Pollock, Horatio Milo
Porter, Frank Donald
Roy, Arthur Jay
See, George Corliss
Taylor, Henry William
Taylor, Walter Jennings
Tucker, Willis Gaylord
Van Name, Willard Gibbs
Waterbury, Webster Earle
Wheeler, Edward Jonathan
Wills, John Gordon
Whitlock, Herbert Perey
ALFRED
Lake, Dyer Barker
AMSTERDAM
Conover, Archie Randall
Stewart, George C.
Wilson, David
ANGELICA
Wilgus, Herbert Sedgwick
ARKVILLE
Newton, Edmund
AURORA
Gaehr, Paul Frederick
BATAVIA
Alexander, Charles Anderson
Blight, Julia Norum
BEDFORD HILLS
Weidensall, Clara Jean
BINGHAMTON
Conlee, George Dyer
Johnson, Herman Norton
Ross, Mary Jane
BROOKLYN
Adams, Leon George
Auringer, Arthur Jay
Bartley, Elias Hudson
Best, Lyman Austin
Beyer, Albin H.
Breitwieser, Herman George
Carter, Effie Adeline
Clark, Tracy Earl
Cleaver, Charles
Deiser, Norman Arthur
Dix, Frank Stillman
Dixon, De Forest Halstead
BROOKLYN—Continued
Enger, Arthur Ludvig
Fiedler, Albert
Fort, Edwin John
Freedman, William Horatio
Gager, Charles Stuart
Gannett, Ray Willard
Gobel, Frank Conant
Harris, Lena
Hoffman, Alfred
Hulst, Francis A.
King, Warner
Kroger, Fred Hutton
Leiser, Ferdinand, Jr.
Lyall, Harold William
Macon, William Watts
Moody, Jessie (Holmes) (Moody, Mrs. H. I.)
Noyes, Robert Edgar
Oman, Charles Malden
Payne, Edgar Long
Peele, Grace Darling
Rogers, Allen
Ryon, Henry
Shearer, Harold Hutchison
Schumann, Carl Julius
Smith, Eugene Randolph
Smith, Marco Carmelich, Jr.
Wagenseil, Oswald Martin
Watson, Cassius Hinds
Wheeler, George Benson
White, Benjamin
Wright, Richard Avery
Wyckoff, Charles Rapelyia, Jr.
BROWN'S STATION
Miller, Herbert Eugene
BUFFALO
Bissell, Arthur Douglas, Jr.
Busch, Frederick Carl
Cole, Robert Titcomb
Davis, Lynn Leroy
Dubois, Wilbur Latimer
Fritz, Walter Edward
Haslam, Erwin Ernest
Herden, Byron Voltaire
Johnson, Albert Lincoln
Kuhn, Joseph
Lawton, Elmer Claud
Love, Frank William
March, Harry Joseph
Reamer, Maude Josephine
Roberts, John Thomas, Jr.
Shepard, Alwin W.
Sherry, Ralph Harrison
Sibole, Barton Presley
Wardwell, Mary Margaretta
Witmer, Joseph Franklin
CANANDAIGUA
Gelder, Walter Hudson
CHAPPAQUA
Cox, Mary Alice (Nichols) (Cox, Mrs. John, Jr.)
CLINTON
Carruth, William Massey
Fitch, Anna Louise (McKinnon) (Fitch, Mrs. Edward)
Saunders, Samuel J.
COLD SPRING HARBOR, L. I.
Banta, Arthur Mangum
Danielson, Florence Harris)
Davenport, Gertrude Anna (Crotty) (Davenport, Mrs. C. B.)
Davenport, Charles Benedict
Goodale, Hubert Dana
Gortner, Ross Aiken
Harris, James Arthur
Shull, George Harrison

NEW YORK—Continued

COHOES
Furbeck, George H.
Johnston, Harold Eddy
Penrose, Edward, Jr.

COOPERSTOWN
Multer, Monte Josiah

COPENHAGEN
Lockner, Sidney J.

CORNING
Duschak, Lionel Herman
Duschak, Frances (Eschenburg) (Duschak, Mrs. Lionel Herman)
Gage, Henry Phelps
Maxon, Arthur Lyman

CORNWALL-ON-HUDSON
King, Eric Ture
West, Karl Frederick

CORTLAND
Higgins, Reuben Paul

COVENTRYVILLE
Parker, Charles Joel

DEPEW
Hitchcock, James Ladd
Sayers, Boyd Ray

EDMESTON
Ackerman, Fred Lee

ELMHURST, LONG ISLAND
Austin, Herbert Sidney

ELMIRA
Bovier, John Hammond
Jaggard, Herbert Armstrong
Kern, John William
Richmond, Francis Alanson

ELMIRA HEIGHTS
Preston, Henry Wray

FREDONIA
Hartzell, Frederick Zeller

FLUSHING
Breckenridge, Clarence Edward
Ferguson, William C.
Slater, Mary Florence Wells

FORT PLAIN
Williams, Joseph Dimock

FREEPORT
Malcomson, Alfred Sidney

FULTON
Emerick, Louis Warren
Shutler, Philip Foster

GARDEN CITY, L. I.
Miller, Wilhelm

GENESEO
Fraser, Samuel

GENEVA
Conn, Harold Joel
Grossenbacher, John Casser
Harding, Harry Alexis
O'Neill, James George
Parrott, Percival John
Watson, Frank Elbert

GLEN CONE
Tresselt, Oswald Herman

GLENS FALLS
Patterson, Arthur Adams
Rhodes, Charles Foster

GLOVERSVILLE
Cassedy, William Spencer

HAMILTON
Child, Clement Dexter

HASTINGS-ON-HUDSON
Beach, Harold Kenney
Kenyon, Otis Allen

HERKIMER
Baker, E. Brown

HIGHLAND
Lent, Andrew Wright

HINCKLEY
Bennett, Louis Ray

HOLLIS, L. I.
Marshall, D. T.

HOOSICK FALLS
Cluett, Sanford Lockwood

HORNERSVILLE
Stephens, Frank William

HUDSON FALLS
Derby, Archibald Stewart
Lewis, Leon Roy

IRONDEQUOIT
Anderson, Hugh McVean

ITHACA
Albert, Calvin Dodge
Allen, Arthur Augustus
Anderson, Ross Peter
Atkinson, George Francis
Ayres, Hiram Douthitt
Bailey, Liberty Hyde
Barnard, William Nichols
Barnes, Fred Asa
Barrus, Mortier Franklin
Barton, Calvin Lewis
Beal, Alvin Casey
Bedell, Frederick
Bentley, Isaac Madison
Bentley, John, Jr.
Bizzell, James Adrian
Black, John Alexander
Blaker, Ernest
Bradley, James Chester
Breed, Frank
Brown, Harry Philip
Briggs, Thomas Rowland
Browne, Arthur Wesley
Buehler, Albert George Frederick
Burnett, Samuel Howard
Capron, William Cargill
Carver, Walter Buckingham
Carpenter, Rolla Clinton
Cavanaugh, George Walter
Chamot, Emile Monnin
Church, Irving Porter
Clark, Charles Frederick
Comstock, Anna Botsford
Comstock, John Henry
Coville, Luzerne
Craig, Clyde Firman
Craig, John
Crandall, Charles Lee
Crosby, Cyrus Richard
Cross, Louis Josephus
Cushman, Blin Sill
Delbridge, Thomas G.
Dennis, Louis Munroe
Dickey, Malcolm Gillespie
Diederichs, Herman
Douglas, John Frederick Howard
Dresbach, Mervin
Duggar, Benjamin Minge
Durand, Albert Cyrus
Edwards, Austin Southwick
Embody, George Charles
Engeln, Oscar Diedrich von
Fish, Pierre Augustine
Fisher, Willard James
Fitch, Clifford Penny
Ford, Walter Stebbins
Forman, Alexander Hardie

NEW YORK—Continued

ITHACA—Continued
Frost, Howard Brett
Fuertes, Louis Agassiz
Gage, Susanna (Phelps)
(Gage, Mrs. Simon Henry)
Gage, Simon Henry
Gage, Victor Raymond
Galajikian, Alexander Sarkis
Galajikian, Haig
Galpin, Sidney Longman
Gibbs, Roswell Clifton
Gilbert, Arthur Witter
Gill, Adam Capen
Gillespie, David Clinton
Gilmore, Ralph John
Givens, Maurice Hope
Harris, Gilbert Dennison
Haskell, Eugene Elwin
Hayes, Rud Bryant
Herrick, Glenn Washington
Hess, Howard Drysdale
Hill, George Richard
Hirshfeld, Clarence Floyd
Hitch, Emmet Francis
Hopkins, Grant Sherman
Hopper, Herbert Andrew
Houlehan, Arthur Earl
Howe, Harley Earl
Hoy, David Fletcher
Humbert, Eugene Peter
Hunter, Andrew
Hurwitz, Wallie Abraham
Hutchinson, John Irwin
Hyde, Tom Bruce
Illingworth, James Franklin
Ives, Robert Austin
Jacoby, Henry Sylvester
Jensen, Jes Peter Frederick
Jones, Frederick Sowden
Karapetoff, Vladimir
Kerr, Abram Tucker
Kimball, Dexter Simpson
Kingsbury, Benjamin Freeman
Kingsbury, Marguerite (Hempstead)
Knudson, Lewis
Kramm, Hugo Edmund
Law, James
Leighty, Clyde Evert
Leland, Ora Miner
Livermore, Kenneth Carter
Lloyd, John Thomas
Love, Harry Houser
Lundell, Gustave Ernst Frederick
Lyon, Thomas Lyttleton
McCool, Merris Mickey
McCracken, George Lewis
McDermott, George Robert
McMahon, James
Mann, Albert Russell
Martin, Harriett Marie
Matheson, Robert
Mayer, Edwin Charles
Mayes, Harry Welday
Miles, Egbert J.
Milks, Howard Jay
Mills, Adelbert Philo
Minns, Edward Russell
Merritt, Ernest George
Molby, Fred A.
Moler, George Sylvanus
Montgomery, Edward Gerrard
Moore, Veranus Alva
Morgan, Anna Haven
Mulford, Walter
Murdoch, Carleton Chase
Nasmyth, George William
Needham, James George
Nichols, Edward Lemington
Norris, Henry Hutchinson

ITHACA—Continued
Ogden, Henry Neely
Orndorff, William Ridgely
Owens, Fred Williams
Owens, Helen Barten (Brewster)
(Owens, Mrs. Fred William)
Pawling, Jesse Randolph
Peebles, James Clinton
Pertsch, John George, Jr.
Preswick, Eugene Henry
Prucha, Martin John
Ranum, Arthur
Rathjen, Edwin Frederick
Reddick, Donald
Redfield, Harry Westfall
Reed, Hugh Daniel
Rice, James Edward
Richtmyer, Floyd Karker
Ries, Heinrich
Riley, William Albert
Rodgers, Ralph Chapman
Rogers, Clarence Arthur
Rosenbaum, Joseph
Ross, Harold Ellis
Rowlee, Willard Winfield
Sawdon, Will Miller
Schideler, William Henry
Schoder, Ernest William
Sharpe, Francis Robert
Shearer, John Sanford
Sheldon, Pearl Gertrude
Shetterly, Fred
Simpson, Sutherland
Smith, Albert William
Smith, Lucy Wright
Smith, Philip Edward
Smith, Ruby Green Bell
(Smith, Mrs. Albert William)
Snyder, Virgil
Somerville, Albert Alexander
Stewart, Vern B.
Stocking, William Alonzo, Jr.
Stryke, Anna Clegg
Tailby, George Walter, Jr.
Tanner, John Henry
Taylor, Hawley Otis
Thomas, Melvin Francis
Thompson, George Ellsworth
Tinker, Martin Buel
Titchener, Edward Bradford
Turner, Ebenezer Tousley
Udall, Dennie Hammond
Upton, George Burr
Warren, George Frederick
Warren, Mary (Whitson)
(Warren, Mrs. George Frederick)
Webber, Herbert John
Welsh, Thomas Whitney Benson
Whetzel, Herbert Hice
Whipple, Guy Montrose
White, Gorrell Robert
White, Ward Benjamin
Wilber, David Truxton
Williams, Harvey Daniel
Williams, Henry Shaler
Williams, Roger Butler, Jr.
Williams, Walter Long
Wilson, Charles Scoon
Wing, Henry Hiram
Winters, Rhett Youmans
Wood, Eugene Harper
Wright, Albert Hazen
Wright, Anna (Allen)
(Wright, Mrs. Albert Hazen)
Wright, Floyd Robins

JAMAICA
French, James Benton
Linville, Henry Richardson
Massey, Myrtle Lothrop

NEW YORK—Continued

JORDAN
Howe, Anna Mayme
KINGSTON
Tremper, Burton Morss
LAKE GEORGE
Imrie, Daniel Ferguson
LAMONTVILLE
Hutchins, George Pelton
LEWISTON
Morgan, James Warren
LITTLE FALLS
Feldmeier, Harvey
LOCKPORT
Millar, Roger Alexander
LONG ISLAND CITY
Bond, Stanley Frank
Zons, Frederick William
LYONS
Volcker, Paul Adolf
MASSENA
Groat, Benjamin Feland
Rickey, James Walter
Ward, Roy Elsen
Whitsit, Lyle Antrim
MECHANICVILLE
Crowell, Francis Sterling
Shoemaker, Harry
MIDDLEBURGH
Van Wormer, Wellington Eugene
MT. McGREGOR
Howk, Horace John
NEWBURGH
Millett, Kenneth Ballard
NEW ROCHELLE
Schell, Orville Hickok
Otten, Leonard Flagge
NEW YORK CITY
Aigeltinger, Arthur
Allen, William
Amend, Carl Gustave
Anderson, Rudolph Martin
Appleton, Francis Wirt
Arendt, Morton
Arnold, Harold DeForest
Austin, William Eugene
Baehr, George
Balcom, Homer Gage
Baldwin, Wesley Manning
Ball, Albert
Bancroft, Frank Watts
Barlow, DeWitt Dukes
Barnes, Frank Edwin
Barnum, Charles Gardiner
Barr, John Henry
Barre, Herbert Aubrey
Barton, Calvin Lewis
Bayley, Charles Abercrombie Dunbar
Beans, Hal Truman
Beardsley, Frederick Armour
Beardsley, Walter Douglas
Beck, George Elbert
Beckwith, Nathan
Beebe, Silas Palmer
Beinecke, F. W.
Beggs, George Erle
Belcher, Verner A.
Belmont, Franklyn Edward
Bennett, Charles William
Benedict, Stanley Rossiter
Berkey, Charles Peter
Bigelow, Maurice Alpheus
Biggs, Hermann Michael
Black, Adolph
Blake, Edwin Mortimer

NEW YORK CITY—Continued
Blanchard, Arthur Horace
Boas, Franz
Bogert, Marston Taylor
Bokop, Frederick Andrew
Boorman, Kitchell Monckton
Borg, Sydney Cecil
Bostroem, August, Jr.
Bouchard, Harry
Bradley, Phillip Reed
Brainin, Clement S.
Bredt, Edward Arthur
Briggs, Robert Wesley
Briggs, Zenas Marston
Britton, Nathaniel Lord
Browne, Kenneth Caulfield
Bruère, Alice Henrietta
Brun, Clement Benjamin
Bryan, Charles Walter
Burby, James Dennis
Burgoon, Charles Eli
Burr, William Hubert
Burroughs, Joseph Howell, Jr.
Burrows, Montrose Thomas
Caldwell, Edward
Caldwell, Eugene Wilson
Calkins, Gary Nathan
Campbell, William
Carpenter, Allan Wadsworth
Carples, Victor Hugo
Carr, Homer Lyman
Carrel, Alexis
Carter, Alfred Ellsworth
Casler, Melvin David
Cattell, James McKeen
Cauchois, Reginald Wadsworth
Cerussi, Peter Bragio
Chambers, Ralph Hamilton
Chandler, Albert Hotchkiss
Chandler, Charles Frederick
Channing, John Parke
Church, Elihu Cunyngham
Clark, Alva Benson
Clark, Ernest Dunbar
Clark, Frederick Huntington
Clark, John Powell
Clark, Paul Franklin
Clark, Sidney Milton
Clemmer, John Hugh
Clock, Ralph Oakley
Coburn, Edward Bernard
Coelos, Jules Auguste
Cohen, Nathan
Coleman, Harry Shipp
Coley, Clarence Tallman
Colyer, Charles Irving
Congdon, Edgar Davidson
Congdon, Howard Wilbur
Cooper, Ralph Stuart
Corbett, Harvey Wiley
Cornell, Charles Lorin
Corthell, Elmer Lawrence
Cox, Merlin Lee
Craft, Warren Moore
Crampton, Henry Edward
Crane, Albert Sears
Crocker, Francis Bacon
Crohn, Burrill Bernard
Crossman, Gilbert
Cummings, Noah
Curtis, Carleton Clarence
Curtis, John Greenleaf
Curtis, Robert William
Darrach, William
Darrow, Leo Harvey
Darrow, Raymond Cornwell
Davis, Bergen
Davis, Hugh Garnett
Davis, Reuben
Dawley, Clarence Augustus

NEW YORK—Continued

NEW YORK CITY—Continued
Day, William Schofield
De Forest, Nora Stanton (Blatch) (De Forest, Mrs. Lee)
Dennenberg, Carl Otto von
Denno, Willard Joseph
Derleth, Walter Taubert
Dickerson, Mary Cynthia
Ditman, Norman Edward
Dodd, Frederick F.
Dodge, Norman
Dodge, Richard Elwood
Dorsey, Herbert Grove
Doubrava, Harry Wilfred
Doyle, Edgar Dwight
Drowne, Henry Bernardin
Duncan, Harry Lee
Dunn, Charles
Dunn, Gano Sellick
Eddy, Walter Hollis
Edwards, James Harvey
Egbert, Henry Drew
Eide, Torris
Elser, William James
Ellenwood, Frank Oakes
Elmen, Gustavus Waldemar
Ewing, James
Faber, Harold Kniest
Falk, Kaufman George
Falk, Milton J.
Falk, Myron Samuel
Falkenau, Robert Morris
Famulener, Lemuel William
Farr, Charles Everett
Farrand, Livingston
Farwell, Herman Waldo
Ferguson, Jeremiah Sweetser
Fettke, Charles Reinhard
Finch, James Kip
Fine, Morris S.
Fisher, Harry Linn
Fischer, Henry Baldwin
Fisher, Joel Ellis, Jr.
Fite, William Benjamin
Flamulener, Lemuel William
Flexner, Simon
Folwell, Amory Prescott
Ford, Frank Richards
Ford, Hannibal Choate
Forest, Henry Pelouze de
Freas, Thomas Bruce
Freeman, Alfred
Freund, Otto Albert
Freund, Mortimer
Frissell, Lewis Fox
Gaines, John Marshall
Geer, Howard Earl
Genung, Nelson Howard
Gherardi, Bancroft
Gibert, Frederick Edward, Jr.
Giddings, Franklin Henry
Gies, William John
Gill, Frederick William
Gillespie, Louis John
Gladden, Charles Stephen
Goddard, Pliny Earle
Goehle, Otto Louis
Goentner, William Beans
Going, Charles Buxton
Goldfarb, Abraham Jules
Gorsline, Ernest Elisha
Grabau, Amadeus William
Gratacap, Louis Pope
Gray, Clyde D.
Greene, Russell DeCosta
Groesbeck, George Swetland
Grove, William Garrett
Hale, Frank Eugene
Hallock, William
Halpin, Zachariah Power

NEW YORK CITY—Continued
Halsey, Frederick Arthur
Hamilton, Francis Marion
Hanson, Wilmer Crooks
Harper, Robert Almer
Harrington, Walter Gardiner
Hart, Benjamin F.
Hartwell, Fred W.
Haseman, John Diedrich
Hastings, George Tracy
Hastings, Thomas Wood
Hawkes, Herbert Edwin
Hawkesworth, John
Hays, Harold Melvin
Hazen, Tracy Elliott
Healey, William Patrick
Heidenberger, Michael
Henry, Philip Walter
Herrick, William Worthington
Hering, Rudolph
Hess, Edward
Hilditch, Warren Witherell
Himmelwright, Abraham Lincoln A.
Hollick, Charles Arthur
Hollingworth, Harry Levi
Holmes, Gerald Anderson
Hoobler, Bert Raymond
Hood, Richard Hayden
Hooker, Elon Huntington
Houghton, Charles Edwin
Hovey, Walter Freeman
Howard, Anna Townsend (Howard, Mrs. Charles Walter)
Howard, Charles Walter
Howe, Marshall Avery
Howe, Henry Marion
Howe, Paul Edward
Humphrey, Calvin B.
Humphreys, Frederick Brewster
Humphreys, George Hoppin, Jr.
Humphrey, Oswald D.
Huntington, George Sumner
Huntoon, Louis Doremus
Hutton, Frederick Remsen
Ingersoll, Howard Lyman
Irwin, David Duryea
Ives, Frederick Merwin
Jackson, Abraham Wendell
Jackson, Holmes Condict
Jebejian, Nejib H.
Jenkins, James Edgar
Jewett, Frank Baldwin
Joannes, Francis Eugene Yeates
Johnson, Alexander
Jouard, Farel Louis
Joüet, Cavalier Hargrave
Judd, Edward Knight
Kaestner, Albert Carl
Kains, Maurice Grenville
Keller, Frederick Rowe
Kemp, James Furman
Kendall, Burton Warren
Kendall, Edward Calvin
Kern, Edward Frank
Key, Benjamin Witt
Kinsman, Richard Ellard
Kirk, Charles Townsend
Klaber, William
Klein, Frederick
Kleiner, Israel Simon
Knowlton, Theodore Ely
Kraus, Arthur
Kress, Otto
Kroff, Alfred Hemmer
Kruse, Frederick, Jr.
Kurtz, Ford
Lambert, Charles Irwin
Lamme, Maurice Allison
Lancaster, George Y., Jr.
Landers, Charles Scott

NEW YORK—Continued

NEW YORK CITY—Continued
Lawrence, George Alfred
Lawton, Arthur Hamilton
Lee, Frederic Schiller
Lennes, Nels Johann
Leggett, Willis Sargent, Jr.
Levy, Arthur Bernard
Llano, Antonio
Loeb, Jacques
Loening, Grover Cleveland
Loewenstein, Jacob
Lothrop, Alfred Pierce
Lovell, Earle Brink
Lotka, Alfred James
Lucas, Daniel Ralph
Lucke, Charles Eduard
Ludwig, Julius Alfred
Luke, David Lincoln
Luquer, Lea McIlvaine
Lush, Cuyler Warfield
Lusk, Graham
Lutz, Frank Eugene
Lynn, Henry Hudson Edwin
McAllister, Addams Stratton
McClendon, Jesse Francis
McGregor, James Howard
MacNeal, Ward J.
Manly, Charles Matthews
Mann, Paul Blakeslee
Manwaring, Wilfred Hamilton
Marks, Louis Benedict
Matthews, Alberta Cory
(Matthews, Mrs. Fred E.)
Matthew, William Diller
Maury, Carlotta Joaquina
May, David Thorpe
Mead, Charles Searing
Mead, Harry Levi
Mehren, Edward John
Merrill, Earl Abbott
Mershon, Ralph Davenport
Metzger, Floyd Jay
Michailovsky, Benjamin
Miller, Myrtle Helen
Mills, John
Mitchell, Samuel Alfred
Mitchell, Walter Louis
Moore, Benjamin
Morecroft, John Harold, Jr.
Morehouse, Lyman Foote
Morgan, John Livingston Rutgers
Morrill, Charles Virgin
Morris, Frederick Kuhne
Morrison, Charles Edward
Morse, Leighton B.
Morse, Max
Mortimer, James Daniel
Moses, Alfred Joseph
Mosscrop, William Addams
Munroe, Henry Smith
Murrill, William Alphonso
Murlin, John Raymond
Myers, John Hays
Nelms, William Stockton
Nelson, John Maurice
Nelson, Nels Christian
Nicholl, Roy Herbert
Nichols, William Wallace
Nye, Algernon Sidney
Opitz, Russell Burton
Osborn, Henry Fairfield
Osburn, Raymond Carroll
Osterud, H. L.
Ottenberg, Reuben
Packard, Charles
Parish, Wainwright
Parker, Herschel Clifford
Parr, Harry Lilienthal
Parsons, William Barclay
Patterson, Silas Beach

NEW YORK CITY—Continued
Pedersen, Frederick Malling
Peebles, Leighton H.
Pegram, George Braxton
Pegram, George Herndon
Perkins, Frank Edson
Perry, Clarence Arthur
Pike, Frank Henry
Pistor, George Emil John
Polk, William Mecklenburg
Popp, William Joseph
Potter, Winfield Scott
Potts, Clyde
Powell, Frederick James
Prentiss, Henrietta
Prosser, Herman A.
Pupin, Michael Idvorsky
Quass, Ralph Leroy
Rautenstrauch, Walter
Read, Henry Lewis
Reddick, Harry Wilfred
Reynolds, Winfred Everett
Richards, Herbert Maule
Riddile, John Scott
Riegel, Ross Milton
Riker, George Newton
Riley, Henry Alsop
Riley, Wells Littlefield
Roberts, Charles Asaph
Robinson, Charles Albert, Jr.
Robinson, Ernest Franklin
Robinson, Floyd Lucien
Rogers, John
Rosenbloom, Jacob
Rossiter, Ehrick Kensett
Rothschild, Walter Louis
Rulison, Elbert Theodore
Ryan, John Joseph
Rydberg, Per Axel
Ryder, Ely Morgan Talcott
Sanderson, Edwin Nash
Sanford, Warren Bixby
Saurel, Paul Louis
Schieffelin, William Jay
Schlapp, Max Gustav
Schlichter, Walter Irvine
Schulte, Hermann von Wechlinger
Scripture, Edward Wheeler
Seaver, Fred Jay
Senior, Harold Dickinson
Sever, George Francis
Severinghaus, Willard Lesly
Sewall, Frank Houghton
Shackelton, William James
Shakespeare, Franklin Heverin
Shape, Robert Louis
Sharp, Clayton Halsey
Shaw, James William
Sherman, Henry Clapp
Sherwood, George Herbert
Shreve, Richmond Harold
Sloan, William Griffith
Slosson, Edwin Emery
Smith, Alexander
Smith, Bertram Garner
Smith, Howard Dwight
Soper, George Albert
Spencer, Charles B.
Stacy, Henry Pomeroy
Steinhardt, Edna
Stevenson, Reston
Stifler, William Warren
Stinson, Joseph Whitla
Stockard, Charles Rupert
Stone, George Cameron
Stout, Arlow Burdette
Storey, Thomas Andrew
Stoughton, Bradley
Strong, Oliver Smith
Strong, Wendell Melville

NEW YORK—Continued

NEW YORK CITY—Continued
Struthers, Joseph
Talkes, Louis Nelson
Talmadge, Jesse Moore
Tanz, Isadore
Taylor, Alfred Ernest
Taylor, Edwy Lycurgus
Tea, Peter Louis
Teeple, John Edgar
Terrasse, George Louis
Thacher, Henry Clarke
Thomas, Clarence Proctor
Thomas, Charles W.
Thomasen, Edgar George
Thorndike, Edward Lee
Thro, William Crooks
Thurston, Edward Day, Jr.
Timmerman, Charles Edward
Tombo, Carl
Torrance, William Martin
Tour, Reuben Simkin
Tower, Ralph Winfred
Trowbridge, Charles Christopher
Tucker, Benjamin J.
Tucker, Samuel Auchmuty
Tugman, Orin
Turner, Daniel Lawrence
Tuthill, James Foster
Van Dusen, Gardner Lewis
Van Slyke, Donald Dexter
Van Vleck, Ernest Allen
Vehslage, Harold Edwin
Vulte, Herman T.
Wait, John Cassan
Walker, Arthur L.
Walker, Elisha
Walker, Howard George
Wallbridge, William Knickerbocker
Wallin, Ivan Emanuel
Walton, Joseph Barnard
Ware, Howard Thomas
Ward, George Merritt
Webb, Harold Worthington
Weed, Walter Harvey
Weick, Charles William
Weingarten, Frederick Seymour
Wells, Arthur Cleveland
Welty, Harry True
Wendell, George Vincent
Westfall, John Van Etten
Wheeler, Edmund Burke
Wheeler, Edwin Bennett
Wessler Harry
Whipple, Doris William
Whitaker, Milton C.
Whitcomb, William Arthur
White, James Gilbert
Wiechmann, Ferdinand Gerhard
Wiggers, Carl John
Williams, Arthur Collins
Williams, Harvey Daniel
Williams, Jacov Paul Jones
Williams, Roland Hugh
Williams, Samuel Byron, Jr.
Wills, Albert Potter
Wilmot, Sydney
Wilson, Edmund Beecher
Wise, Louis Elsberg
Wise, Sidney Leo
Wolff, Alfred Daniel, Jr.
Wolf, Charles George Lewis
Wood, Francis Carter
Woodrow, Harry Ray
Woticky, Charles Boyd
Wright, Roydon Vincent
Young, Rowland Lawrence

NIAGARA FALLS
Beers, Harold Smith
Brown, Mortimer Jay

NIAGARA FALLS—Continued
Carpenter, Campbell Colon
Carveth, Hector Russell
Eshelman, Clarence Metz
Graling, Verney
Perkins, Alfred Emery
Russell, Alexander
Snowdon, Ralph Cuthbert

NORTH TONAWANDA
Vroman, Dow

NORTH TROY
Betts, Anson Gardner

NORWICH
Sage, Lillian Belle

NUNDA
Barron, John Hall

NYACK
Doig, Arthur Knox

ONEIDA
Allen, Grosvenor Noyes
Baker, Harold Wallace
Leonard, Stephen Rose

OSSINING
Walrath, Otto Jean

OSWEGO
Lawton, Walter Lewman
Reddish, Thomas Henry
Wadhams, Darius Thompson

OXFORD
Holmes, Harvey Nelson

PERRY
Benedict, Charles Holbrook

PHOENIX
Maider, Joseph Plaisted

PINE PLAINS
Merchant, John Crap

PLEASANTVILLE
Knight, Annabel (Beach)
(Knieght, Mrs. Bertram G.

PORT CHESTER
McWeeney, Lawrence Riley

POTSDAM
Brooks, John Pascal
Wheeler, Edwin Bennett

POUGHKEEPSIE
Abbott, Edwina Eunice
Blunt, Katherine
Doan, Martha
Murray, Elsie
Pilcher, Lewis Frederick
Todd, Leona Estelle
Washburn, Margaret Floy
White, Henry Seely
Wick, Frances Gertrude

PORT JERVIS
Eldredge, Frank Ernest

PURLING
Emigh, William Chester

RAY BROOK
Garvin, Albert Henry

REBER
West, George Hutton

RICHMOND HILL
Macomber, Irwin John

RIVERDALE
Dean, Bashford

ROCHESTER
Bloxham, Thomas Earl
Britton, George Chester
Chambers, Victor John
Chapman, Carlton Thorp
Edmondson, George Joseph Nelson
Ernsberger, Millard Clayton

NEW YORK—Continued

ROCHESTER—Continued
Fairchild, Herman Le Roy
Gale, Arthur Sullivan
Hastings, Herbert
Higby, Edwin Barker
Hunter, Fred Walter
Keyes, Frederick George
Keller, Lloyd Marley
Lawrence, Henry Edmund
Little, Beekman Cox
Lomb, Henry Charles
Mosher, Howard Townsend
Mosscrop, Alfred Milton
Nims, Albert Armstrong
Peck, Henry Waterman
Punnett, Milton Baxter
Wilcox, Perley Smith
Wilder, Edward Lyman
Winans, Edwin Henry

ROME
Clark, Ida Adella Ross
(Clark, Mrs. J. Edwin)

ST. JOHNSVILLE
Horn, Adam John

SCHENEVUS
Bennet, Raymond S.

SENECA FALLS
Allen, William Gordon
Sharp, Stella Emily

SHERBURNE
Kutschbach, Harold Newton

SONYEA
Munson, James Frederick

SOUTHAMPTON
Cameron, Walter Scott

TONAWANDA
Ayrault, Miles
Barrally, Thomas Webster

TRUMANSBURG
McLallen, Henry Crane

SCHENECTADY
Allee, David Arthur
Barnes, Alfred Henry
Bassett, John Besler
Becker, Walter J.
Bell, James Clark
Blair, Nathan Doud
Broderson, Harry Peter
Brunnett, Robert Leonard
Callan, John Albert Charlton
Chapman, Charles Herbert
Champlin, Franklin Jerome
Cheney, Edward Joseph
Clark, Rodolphus Philip
Cooper, Frank
Cooper, Sidney Bruce
Craighead, James Ray
Creighton, Elmer Elsworth Farmer
Cunningham, James Hannah
Dalton, Ida (Hill)
(Dalton, Mrs. William)
Dantsizen, Christian
Davies, Arthur Edgar
Davis, Cassius Miles
Day, Winterton James
Doherty, Robert Ernest
Ellery, Edward
Ferguson, Olin Jerome
Finch, Raymond J.
Garis, Charles Frederick Flemming
Garrison, Wilbert A.
Girvin, Fred
Gray, George Francis
Grover, Harland Haviland
Hambleton, Thomas
Hamilton, William S. H.
Hannigan, Thomas Edward
Hull, John Irving

SCHENECTADY—Continued
Kawara, Masaki
King, Morland
Knowlson, James Somerville
Kruesi, August H.
Lacy, Frederick Thurlow
Landreth, Olin Henry
Landreth, William Baker
Lichtenberg, Chester Alan Arthur
Lyon, George John
Marx, Augustine
Nash, Charles Anson
Opdyke, Howard
Parker, Glowacki Redfield
Paul, William Edward
Pepper, Albert Hartwell
Phillips, Frank Dewey
Rask, Louis
Reid, George Harold
Robinson, Lloyd Nash
Sheldon, Lucian Ambler
Stansel, Numan Reid
Steinmetz, Charles Proteus
Stoller, James Hough
Teegarden, Chester Henry
Thompson, George Ellsworth
Travis, S. Vernon
Truax, James Reagles
Trumbull, Charles W.
Turner, Leonard Whittier
Van Alstyne, H. A.
Vandergrift, Wayne Avril
Van Dyke, Clifford Steele
Watson, Wallis Cowl
Weller, William Earl
Westcott, Bayee Newcomb
Whitmore, Peter J.
Williams, Ernest Daniel
Wood, Dann Leonard
Wright, William Howard
Young, Daniel Albert

SYRACUSE
Archibald, Ebenezer Henry
Blackman, Maulsby Willett
Brainerd, Arthur E.
Bray, William L.
Brown, Harold Hiram
Brunel, Roger Frederic
Bullard, Warren Gardner
Cashman, Marie Elizabeth
Chamberlin, Dan Woleaver
Clark, Dean
Clark, Herbert Anthony
Clark, Elizabeth Garrett
Clark, Herbert Anthony
Conway, Ernest Franklin
Cuningham, John Wesley
Decker, Floyd Fiske
Dooley, Marion S.
Gardenier, Howard Tompkins
Gordon, Neil E
Graham, William Pratt
Hager, Edward Charles
Hanford, George Arthur
Hargitt, Charles Wesley
Harris, Walter David
Harvey, Frederick Addison
Haskell, Robert Henry
Holmes, Arthur
Hopkins, Thomas Cramer
Houghton, Alexis Charles
Jones, Louis Cleveland
Keenan, Ernest C.
Knowlton, Frank Pattengill
Lambert, Alice (Venters)
Lambert, Mrs. Charles A.
Lay, Robert Phinney
Lindsey, Louis
McCarthy, Edwin Florince

NEW YORK—Continued

SYRACUSE—Continued
Mathews, John Alexander
Mavor, James Watt
Meader, Fred Marlen
Merritt, Elizabeth Read
Metzler, George Frederick
Mitchell, Louis
Morton, Darwin Abbot
Murphy, Ralph
Northcott, John Arthur
Nugent, Paul Cook
Pattee, Ernest Noble
Peck, Henry Allen
Pennington, Leigh H.
Perry, Clinton W.
Phillips Ruth Laura
Pratt, Daniel
Rice, Lepine Hall
Richardson, Charles Henry
Roe, Edward Drake, Jr.
Rogers, Charles Gardner
Saunders, Frederick Albert
Shepard, George H.
Smallwood, Julian Chase
Smallwood, William Martin
Smith, Burnett
Smith, Harry Monmouth
Steensland, Halbert Severin
Sperry Earl Eugene
Vickers, Thomas McElderry
Ward, Herbert C.
Weiskotten, Herman G.
Whitney, Rich Dean

TROY
Andros, Charles Henry
Babcock, Charles David
Calkins, Charles Dow
Cary, Edward Richards
Chilliman Edward Fenemore
Clark, Clarence Lee
Clark, Elwyn Maxson
Clark, LeRoy Walter
Crockett, Charles Winthrop
Doty, John William
Edwards, Frederick
Greene, Arthur Maurice, Jr.
Headden, William Ralston
Hechler, Fred George
Hunter, Matthew Albert
Jones, Edward Crosby
Lawson, Thomas R.
Lincoln, Azariah Thomas
McClellen, Hugh Herbert
McGiffert, James, Jr.
Mason, William Pitt

TROY—Continued
Moody, Lewis Ferry
Palsgrove, Grant Knauer
Puffer, Louis Blackmer
Rice, Edward Young
Ricketts, Palmer Chamberlain
Robb, William Lispenard
Rousseau, William White, Jr.
Schulte, Edward Delavan Nelson
Slatcher Alfred Gale
Taylor, David Brier
Thompson, Dwinel Burt
Thompson, Dwinel French
Thompson Gordon Saxton
Thompson, Harold Grant
Turner, Benjamin Mitchell
Weber, John Leroy
Whitney, William Earl
Williams, Wyant James
Willson, Frank J.

UTICA
O'Brien, Abigail Adaline
Pond, Raymond Ashley

VICTOR
Osborne, David Henry

WALTON
Rose, Alston Orange

WARWICK
Hitchcock, Fanny Rysam Mulford

WATERFORD
Abbott, Walter Russell
Knickerbacker, John
Koerner, Frederick Charles, Jr.
Willis, Harry P.

WELLSVILLE
Schaller, Alvin Louis

WEST CAMDEN
Smith, Arma Anna

WHITE PLAINS
Allen, Frank William

WILTON
Brown, Harry Baldwin

WORCESTER
Genung, Lewell T.

YONKERS
Crehore, Albert Cushing
Harris, Isaac Faust
Kennedy, Herbert Leopold
Miller, Max Merrill
Ord, Herbert James
Sikes, Zenas Harrison
Wadsworth, Joel Edward

NORTH CAROLINA

CHAPEL HILL
Bell, James Munsie
Brown, Wade Hampton
Chrisler, Vivian Leroy
Pratt, Joseph Hyde

CHARLOTTE
Firth, Joseph
Wright, Thomas Judson, Jr.

GREENSBORO
Gilbert, George Herbert
Little, Thomas Robinson
Strong, Cora

HORSE SHOE
Morgan, James Oscar

LINVILLE
Gage, John Gray

RALEIGH
Mowbray, Albert Henry
Ray, Burton Justice
Sherman, Franklin, Jr.
Tillman Opal Ione
Withers, William Alphonso

WAKE FOREST
Brewer, Charles Edward

WEST RALEIGH
Vaughan, Lillian Lee

NORTH DAKOTA

AGRICULTURAL COLLEGE
Dynes, Oliver Wesley
Reynolds, Ernest Shaw

DOUGLAS
Grangaard, Henry Oswald

FARGO
Bell, William Bonar
Putt, Earl Berger
Shaw, John Austin
Spence, Bartholomew John
Ziefle, Adolph

GRAND FORKS
Brannon, Melvin Amos
Ruediger, Gustav Ferdinand
Spence, Bartholomew John
Stephenson, Edward Beattie

GRAND FORKS—Continued
Taylor, Albert Hoyt
Young, Robert Thompson

HUNTER
Critchfield, L. R.

LIDGERWOOD
Parsons, Arthur Leonard

STANLEY
Miller, R. C.

TAYLOR
Weyrens, Joseph Peter

UNIVERSITY
Hitchcock, Raymond Royce
Thompson, Clinton Adam

VALLEY CITY
James, McNeal Cole

OHIO

AKRON
Bissell, Frank Edward
Brookover, Charles
Frost, Harry Henry
Geer, William Chauncey
Meredith, Kenneth Llewellyn
Schade, James Walter
Steele, Frank Amos
Whitney, Francis Luther

BARBERTON
Austin, Arthur Oswin
Cruser, Frederick Van Dyke
Harter, Isaac, Jr.

BEREA
Fullmer, Edward Lawrence
Hoddinott, Richard James

BLUFFTON
Hirschler, Edmund John

CANTON
Petersen, John William

CINCINNATI
Benedict, Harris Miller
Carman, Joel Ernest
Dock, Howard
Eddy, Horace Taylor
Fabian, Francis Gordon
Fenneman, Nevin Melanchthon
Fischer, Martin Henry
Goettsch, Henry Max
Guillaudeu, Arthur
Hadfield, Frank Stanley
Hart, Joseph Hall
Howe, William Thomas Hildrup
Jones, Lauder William
Long, Carlos Pointon
More, Louis Trenchard
Powell, William Henry
Price, Victor Taylor
Ruth, Edgar Kingsbury
Slocum, Stephen Elmer
Steere, Charles Childs
Upson, Fred Wilbert
Wernicke, August Ludwig Paul
Whitacre, Horace J.
Wieman, Harry Lewis

CLEVELAND
Abbott, Robert Rowell
Adams, Ira James
Allen, Harry Lee
Ambler, William
Ayers, Augustine Ridenour
Barnes, Frederick Arthur
Baxter, Burke Morgan
Beahan, Willard
Bergen, William Joseph
Beman, Ralph

CLEVELAND—Continued
Bidle, William Sanford
Black, Homer Samuel
Blaser, Arthur Frederick
Blaser, William Edward
Bliss, Carl Edwin
Boertlein, John Charles
Bohrer, August Jacob
Boynton, Napoleon Hiram
Brechner, Claude
Brooks, Chester Kingsley
Burns, Dean
Burrell, Edward Parker
Cadwell, Charles Arthur
Chillas, Richard Burt, Jr.
Christian, Charles Henry
Collens, Clarence Lyman
Comstock, Frank Mason
Coppersmith, Charles William
Croxton, David Thomas
Cunningham, John Ferguson
Cushing, Henry Platt
Dates, Henry Baldwin
Dawson, Jean
Dingle, Howard
Dubois, Norman Armin
Eddy, Clarence Leroy
Eynon, Howard Blaine
Fay, Harvey William
Feihl, Fred William
Fernald, Robert Heywood
Finck, Albert
Focke, Theodore Moses
Friedman, Adolph Jacob
Fulton, Charles Herman
Gaede, Oscar Louis
Gannett, Joseph K.
Geissler, Ludwig Reinhold
Goffing, Charles
Grant, Richard Frank
Hall, George Herbert
Henninger, John Gordon
Henry, Smith Tompkins
Hibben, Frederick Martin
Hodgman, Charles David
Hoffman, Robert
Howe, Charles Sumner
Hubbell, Benjamin S.
Hulett, Frank Erastus
Ives, Herbert Eugene
Jones, Lewis Meredith
Kappler, Harry John
Kemble, Thomas Seth
Klingman, Arthur Martin
Knirk, Carl Fred
Kurtz, Cyrus Bosworth
Lofquist, Harry Stephen
Lorenz, Charles Frederic

OHIO—Continued

CLEVELAND—Continued
Lovell, Frederick William
Mabery, Charles Frederic
Melendy, Jesse George
Merrill, Albert Eli
Merrill, George Schambs
Miller, Dayton Clarence
Neff, Frank Howard
Nelson, John Harland
North, Carl Uno
Olivenbaum, John Emanuel
Olmsted, Charles Thomas
Osborn, Kenneth Howard
Palmie, Anna Helene
Plum, Harley Martin
Pomeroy, Lawrence A.
Porter, Charles Talbot 2nd
Prentice, Philip Boynton
Price, Howard Wade
Pulman, Oscar Stoddard
Roberts, Arthur Boardman
Sheal, Robert Erwin
Skiff, Warner Mason
Smith, Albert William
Smith, Roy Harman
Smith, Stephen Herbert
Snow, Harry Alfred
Snyder, Robert Earle
Spooner, Robert Henry
Springsteen, Harry William
Staley, Cady
Stauffer, Clinton Raymond
Steuer, Arthur Henry
Stewart, George Neil
Stocking, William Arthur
Stratton, Harry Frost
Strosacker, Charles John
Sullivan, Walter Edward
Sweetser, William Jordan
Trumbull, Alonzo George
Van Horn, Frank Robertson
Veazey, William Reed
Vose, Fred Hale
Welfare, Harry George
Whitman, Frank Perkins
Wilker, Arthur Victor
Williams, Arthur Baldwin, Jr.
Wilson, Delonza Tate
Winckler, Isaac Lewis
Worthing, Archie Garfield
Zesiger, Albert William

COLUMBUS
Arnold, Charles Lincoln
Bachtel, Myron Ansel
Barnett, Lelia (Harvie)
(Barnett, Mrs. Samuel Jackson)
Barnett, Samuel Jackson
Barrows, William Morton
Bear, Firman Edward
Beer, James Anderson
Blake, Frederic Columbus
Bleile, Albert Martin
Bohannan, Rosser Daniel
Boord, Cecil Ernest
Bownocker, John Adams
Boyd, James Ellsworth
Bradford, Joseph Nelson
Brenholts, Roy
Caldwell, Francis Cary
Coddington, Edward Foster
Cole, Alfred Dodge
Condit, Daniel Dale
Crane, Evan Jay
Dachnowski, Alfred Paul
Davis, Vernon Hayes
Davison, Alfred Watson
Demorest, Dana James
Detmers, Fredericka
Dye, Clair Albert

COLUMBUS—Continued
Earhart, Robert Francis
Edmonds, Mary Elizabeth
Eno, Frank Harvey
Erf, Oscar
Evans, William Lloyd
Foulk, Elma (Perry)
Foulk, Mrs. Charles William
Foulk, Charles William
French, Thomas Ewing
Funk, Agnes (Smiley)
(Funk, Mrs. Lee W.)
Giesy, Paul Miller
Gill, James Herbert
Griggs, Robert Fiske
Haines, Thomas Harvey
Hall, Ralph Edwin
Hambleton, James Chase
Henderson, William Edwards
Hills, Thomas McDougall
Hine, James Stewart
Hinkle, Albert Harrison
Hitchcock, Embury Asbury
Hoskins, Roy
Howell, Carl Eugene
Hunt, John Herman
Jaros, Zillah Heidenheim
(Mrs. Ernest S. Jaros)
Judd, Horace
Kauffman, George Beecher
Kellogg, David Raymond
Kern, William Frederick
Knight, William Abner
Kuhn, Harry Waldo
Landacre, Francis Leroy
Landacre, Walter Alexander
Lazenby, William Rane
Lord, Henry Curwen
Lord, Nathaniel Wright
Lyman John Franklin
McCampbell, Eugene Franklin
McClure, Charles Walter
McCoard, George Washington
McCune, John Stokes
McLellan, Marie Fansher
McOmber, Loren Wallace
McPherson, William
Maclean, Margaret
Magruder, William Thomas
Manson, Edmund Sewall, Jr.
Mark, Clara Gould
Marshall, Frederick Rupert
Metcalf, Clell Lee
Mills, William C.
Morrey, Charles Bradfield
Morris, Clyde Tucker
Morse, William Clifford
Murray, Gerard Archibald
Nold, John H.
Norton, Sidney Augustus
Orton, Edward, Jr.
Osborn, Herbert
Patterson, Austin McDowell
Phillips, James McIlvane
Plumb, Charles Sumner
Price, Homer Charles
Prosser, Charles Smith
Purdy, Ross C.
Rasor, Samuel Eugene
Rataiczak, Thomas Francis
Ray, Franklin Arnold
Rickard, Hortense
Riddle, Howard Sterling
Sanborn, Frank Edwin
Schaffner, John Henry
Shattuck, Howard Francis
Sheard, Charles
Sheets, Cree
Sherman, Christopher Elias
Simon, Trevor Burchfield

OHIO—Continued

COLUMBUS—Continued
Sisson, Septimus
Smith, Alpheus Wilson
Smith, Clara
Somermeir, Edward Elsworth
Staley, Homer Francis
Starin, William Alfred
Stertzbach, Harry Walter
Stratton, George Weatherworth
Swartzel, Karl Dale
Thomas, Benjamin Franklin
Vivian, Alfred
Weber, Henry Adam
Weiser, Harry Boyer
West, Carl Joseph
White, David Stuart
Wilkinson, John Anderson
Withrow, James Renwick
Witzemann, Edgar John
Wyer, Samuel S.

CONNEAUT
Phelps, Roscoe Gaylord
Treat, Frank Edward

DAYTON
Clements, Frank Orville
Gebhart, Henry
Kettering, Charles Franklin
King, Roy Stevenson
Kohr, Donald Alexis
Mougey, Harry Clifford
Williams, Harry Markley

DELAWARE
Higley, George Oswin

ELYRIA
Lloyd, Karl Ernest

FOSTORIA
Cogger, William Thomas Lee
Cross, Edward Ostrom
Kline, Zenas Clyde

FREMONT
Goodwin, Joseph Hugh
Holmes, Willis Boit

GAMBIER
Walton, Lee Barker
Weida, George Francis

GENEVA
Beach, Burr A.

GRANVILLE
Carney, Frank
Coghill, George Ellett
Lawton, Ellis Earle

HAMILTON
Lake, Charles Henry
Pfau, William Henry
Vaughn, Frank

HARTWELL
Cragg, Shirley Ray

HILLSBORO
Jeans, Philip Charles

LAKEWOOD
Lynn, Ralph Bell

LANCASTER
McCleery, Edna May

LEXINGTON
Smith, Harry Ford

LORAIN
Brown, Earle Wayne
Farkell, George C.

MANSFIELD
Woltmann, Harro

MARIETTA
Coar, Henry Livingston
Krecker, Frederick Hartzler

MIAMI
Fink, Bruce

MT. VERNON
Dorr, Albert Wilford
Fink, Bruce
McNiece, Charles Rex
Miller, Clyde Raymond
Shuptrine, Harry Augustus
Woltmann, Harro

NORWALK
Morse, Ralph Luther

OBERLIN
Branson, Edwin Bayer
Chapin, William Henry
Hubbard, George David
McCullough, James Caldwell
Moore, Edward James
Nichols, Susan Percival
Sinclair, Marye Emily
Williams, Samuel Robinson

ORVILLE
Scott, Walter Glenn

OTTAWA
Johlin, Jacob M., Jr.

OXFORD
Brill, Harvey Clayton
Davis, Benjamin Marshall
Leach, Mary Frances

PAINESVILLE
Cumings, Homer P.
Fernald, Grace Maxwell
Noyes, Mary Chilton

PEEBLES
Wittenmyer, James Graham

PERRY
Tyler, Frederic Jared

PLAIN CITY
Davis, William Joseph
Ruhlen, Frank

RACINE
Cross, Jessie Floy

RAVENNA
Mendenhall, Thomas Corwin

REYNOLDSBURG
Fitzgerald, Albert Daniel

SANDUSKY
King, Clifford Marshall
Newberry, Andrew White
Newbury, Spencer Baird
Phelps, Gurley Sloan

ST. MARYS
Heisler, Charles Louis

TOLEDO
Britton, Glenn B.
Demorest, Ralph Hugo
McClure, Harry Clifford
Price, Claude Elmer

WELLINGTON
Pratt, Jean Paul

WOOSTER
Carmichael, Berton Eugene
Collison, Reginald Clinton
Forbes, Ernest Browning
Houser, John Samuel

YOUNGSTOWN
Campbell Louis J.
Fawcett, Luther Thomas
Thayer, Paul Folsom

ZANESVILLE
Pence, Forrest Kizer
Whitmer, J. D.

OKLAHOMA

ALVA
Hubbard, Albert Kemp

ENID
Heaney, Arthur Noble

GUTHRIE
Howard, William Edward

MILL CREEK
Bloom, Jay George

NORMAN
Bozell, Harold Veatch
Gould, Charles Newton
Haseman, William Peter
Lane, Henry Higgins

NORMAN—Continued
Perrine Irvine
Shannon, Charles William
Snider, Luther Crocker

OKLAHOMA CITY
Carter, Jesse Lee
MacKintosh, William

STILLWATER
Chandler, Richard Edward
Etherton, William Alonzo
Moorehouse, Llewellyn Alexander
Sanborn, Charles Emerson
Stoner, Minnie Ava Nella

OREGON

ALBANY
Harrington, Arthur Strong
MacDuff, Nelson Ferris

ASHLAND
Staples, Charron Monell

CASCADE LOCKS
Thompson, Clark Wallace

COBURG
Washburn, Orson Monroe

CORVALLIS
Covell, Grant Adelbert
Ewing, Henry Ellsworth
Hillebrand, William Arthur
Jackson, Herbert Spencer
Lewis, Claude Isaac
Shepard, Edgar Raymond
Sykes, George Francis

CRESSWELL
Swift, Frank Houston

CRYSTAL
Rose, Jessie Perkins

THE DALLES
White, Clarence Lester

EUGENE
Bovard, John Freeman
Gullion, Omar Ray
Leonard, Heman Burr
Pierce, Raymond Clark
Shinn, Frederick Lafayette
Stafford, Orin Fletcher

KLAMATH FALLS
Geiger, Arthur Edwin

MEDFORD
Janney, Emily Florence
O'Gara, Patrick Joseph

MILWAUKEE
Hall, Elmon Lawrence

PORTLAND
Ames, Fred Elijah
Baird, Alvin Walter
Barber, John Raymond
Bittner Adolf Frederick
Brandon, Henry Clay
Coldwell, Orin B.
Davenport, Royal William
Donald, Robert L'Amy
Gilbert Josiah Allen
Green, Clarence Jasper
Griffin, Frank Loxley
Hollister, Bertha Anita
Kummel, Julius Frank
LeTourneau, Edward Harold
MacLaren, John Dice
McLean, Franklin Chambers
Moore Joseph K.
Rands, Harold Alva
Sabin, Charles Gilbert
Selling, Lawrence
Solhaug, Jens Johan
Stevens, John Cyprian
Thorne, Norman Campbell

SALEM
Lewis, John Howard

SILVERTON
Kleinsorge, Rudolph Ernst

PENNSYLVANIA

ALLEGHENY
Affelder, Harry Fleishman
Hall, William Charles

ALTOONA
Dunklin, Gilbert Turner
Thomas, John Hastings
Williams, Alan Gillespie

AMBLER
Hough, William Jarrett H.

AMBRIDGE
Garlinghouse, Leslie Holmes
Paine, Clifford Emmett
Ruff, Edward John

ANNVILLE
Kreider Joseph Lehn

ARDMORE
Sellers, Horace Wells

ASHLEY
Northrup, Arthur Miller

BEAVER FALLS
Walker, Francis William, Jr.

BLAIRSVILLE
Ihlseng, Magnus Colbjarn

BRADYS BEND
Dewey, Edward Wilkins

BROOKVILLE
Corbet, William Wakefield

BRYN MAWR
Ferree, Clarence Errol
Johnston, William Demorest
Pinney, Edith
Reeds, Chester Albert
Stevens Nettie Maria
Weeks, Eula Adeline

CLARK SUMMIT
Rutherford, Thomas Arthur

CANONSBURG
Bosworth, Rowland Sherwood
Schade, Charles George

CHESTER
Bird, Harold Crusius
Klaer, Henry Jacob
Wyman, Levi Parker

CHESWICK
Cowell, Sophie Harriet (Lynden)
(Mrs. Arthur Wescott Cowell)

PENNSYLVANIA—Continued

CLEARFIELD
Stewart, Lever Flegel
COLLEGEVILLE
Fox, Henry
Rapp, Isaiah March
CONNELLSVILLE
Veser, Lucius Otto
CORAOPOLIS
Braden, Frank Robert
CORRY
Rowe, Harte Langdon
CREIGHTON
Kerr, Charles Henry
CYNWYD
Corson, Edward Foulke
DALEVILLE
Medway, Herbert Edwin
DONORA
Acomb, William Edward
DU BOIS
Blakeslee, Robert Byron
EASTON
Goldbeck, Albert Theodore
Kirkpatrick, Donald Morris
Mackay, Charles Smick, Jr.
Saxon, Louis
EAST PITTSBURGH
Chubb, Lewis Warrington
Hale, Fred James
Hardin, Charles Marks
Herr, Herbert Thacker
Kinsell, William Leonard
Shearer, Conway Wing
Skinner, Charles Edward
EDGEWORTH
Rorty, Malcom Churchill
EPHRATA
Fry, John Martin
ERIE
Clemens, Hays Hutchinson
Hughes, John Wilbur
Kessler, Armin George
Roth, Augustus Henry Halyard
Sprau, Benjamin William
Strickland, Charles Gunnison
Thompson, Alfred Whittecar
ETNA
McKee, William John
FRANKLIN
Bulmer, William Carr
Milton, William Ossian
GERMANTOWN
Andrus, Walter Haskell
GETTYSBURG
Granville, William Anthony
Kirby, Richard Shelton
Parsons, Louis Alexander
GREENVILLE
Samans, Walter
GROVE CITY
Sieplein, Otto Julius
GWYNEDD
Knapp, Kenneth Ralph
HAMBURG
Jacobs, Michael William, Jr.
HARRISBURG
Coover, Carson
Gilbert, Henderson
Hoffert, John Raymund
Miller, David Isaac
Romine, Edward Chapin
Surface, Harvey Adam
HERSHEY
James, Delas Lawrence
HOKENDAUQUA
Thomas, Samuel Richards
Williams, Edward Hall
JOHNSTOWN
Clarke, Edgar Whitney
Cook, James Monroe, Jr.
Dillenbeck Arvin J.
Kress, James Edward
Marshall, Stewart McCulloch
Ottinger, Harry
Weaver, Frank Roderic
Winkler, Lewis Harry
KINGSTON
Jordy, Louis Cleveland
LANCASTER
Atlee, John Light
LEBANON
Light, Seth Andrew
LEWISBURG
Stewart, Norman Hamilton
MCDONALD
Barrett, Arthur
MEADVILLE
Akers, Oscar Perry
Hempstead, Louise
MIDLAND
Jett, Carter Coleman
MIFFLINBURG
Bikle, Paul Harold
MILTON
Jenkins, David John
MYERSTOWN
Stober, James Palm
NEW CASTLE
DeWeese, Dwight Combs
Fitzpatrick, Victor Benedict
NEW KENSINGTON
Chesley, John Osborne
NORRISTOWN
Richardson, William Waddle
Swalm, Charles Joseph
Tompkins, Ernest
NORTH GIRARD
Kepler, William Robertson
PENCOYD
Gregory, Arthur Main
Pollitt, Edward
PHILADELPHIA
Abbott, Alexander Crever
Addison, William Henry Fitzgerald
Albrecht, Herman Carl
Alliger, William Thomas
Armstrong, Alexander Floyd
Ashhurst, Astley Paston Cooper
Astley, George Mason
Austin, James Harold
Babb, Maurice Jefferis
Bache, Franklin
Bacon, Francis Rogers
Bainbridge, Empson Haines
Bair, Joseph Hershey
Bark, Elmer
Barker, Charles Whitney
Barker, Harold Charles
Bartle, Harvey
Bartle, Henry John
Baxter, Harold Alexander
Bechtel, John Clemmer
Bergey, David Hendricks
Berry, Herman Claude
Boehm, Walter Martinus
Boers, John Augustus
Bower, William Henry

PENNSYLVANIA—Continued

PHILADELPHIA—Continued
Brown, Amos Peaslee
Brown, Raymond Lester
Burr, Charles Walts
Butterfield, Thomas Edward
Calvert, Philip Powell
Carnahan, Orson Allen
Carnett, John Berton
Carpenter, Howard Childs
Casey, George Whitman
Chambers, George Gailey
Church, Arthur Latham
Colton, Harold Sellers
Cope, Thomas Darlington
Costello, John Lawrence
Cowell, Harriet (Lyndon)
(Mrs. Arthur Westcott Cowell)
Crawley, Edwin Schofield
Cret, Paul Philippe
Croll, Walter Lewis
Crowell, Walter Stilwell
Davis, Bradley Moore
Day, Franklin Miles
Deichler, Lyn Waller
Detwiler, Samuel Bertolett
Dickey, Samuel Jackson
Donaldson, Henry Herbert
Doolittle, Charles Leander
Doolittle, Eric
Dorsett, Rae Shepard
Downs, Ardrey Whiddin
Easby, William, Jr.
Eckfeldt, Frederick William
Eckhardt, Engelhardt August
Ehlers, Henry Edward
Ehrenfeld, Frederick
Eisenbrey, Robert Howard
Eliason, Eldridge Lyon
Elliott, Augustus Hull
Emlen, John Thompson
Evans, Henry Brown
Evans Owen Brooks
Faires, James Dobbin
Fawley, James Linwood
Fetterolf, George
Filkins, Claud William Leroy
Fisher, George Egbert
Fisher, Wager
Fisher, William Lewis
Fitzmaurice, William John, Jr.
Fitzmaurice, Edmund Joseph
Fox, Benjamin
Frazer, John
Frazier, Charles Harrison
Friend, George Clausen
Fulweiler, Walter Herbert
Garrett, Arthur Sellars
Giele, Walter Scott
Gildersleeve, Nathaniel
Gill, Arthur Bruce
Gilliland, Samuel Howard
Gillinder, James
Gilpin, Francis Hopkinson
Glenn, Oliver Edmunds
Goldbaum, Jacob Samuel
Good, Paul Eckert
Goodspeed, Arthur Willis
Goodwin, Harold, Jr.
Gordon, George Byron
Graham, John Howard
Gray, Robert Lochead
Greenman, Milton Jay
Groben, William Edward
Hallett, George Hervey
Harbeson, John Frederick
Harkins, Melvin Reese
Harrison, Charles Custis
Harshberger, John William
Hatai, Shinkishi
Hatfield, Charles James
Haupt, Max
Havens, Franke Stuart

PHILADELPHIA—Continued
Hering, Carl
Herman, J. Leon
Herring, James
Hexamer, Charles John
Hildebrand, Joel Henry
Hilts, Roy Wilson
Hitchens, William Frank
Holmes, Arthur
Hotchkiss, Homer James
Hough, Robert Harbison
Hovenden, Thomas
Howard, George Merriam
Hoyt, John Ezra
Huggins, George Augustus
Ingram, Edward Lovering
Jacobs, Merkel Henry
Jordan, Thomas Barnett Lewis
Kabakjian, Dicran Hadjy
Kapp, David
Karcher, Walter Thompson
Keen, William Williams
Keller, Harry F.
Kirk, Edward Cameron
Klaer, Fred Harlen
Kneass, Samuel Stryker
Koyl, George Simpson
Kraemer, Henry
Kribs, Herbert Guy
Krumbhaar, Edward Bell
Laib, Walter
Laird, Warren Powers
Lambert, Walter Davis
Leggo, William Thomas
Levy, Simon
Lewis, Paul Adin
Lillie, Ralph Stayner
Linker, William
Lohr, William Shannon
Loos, Paul R.
Lysle, Frederic Bowers
McCarthy, Daniel Josef
McCutcheon, Thomas Potter, Jr.
Macfarlane, John Muirhead
McGowin, Richard Smyth
Mackenzie, George Pierce
Mackinney, William Humphrey
McKinstry, Guy Hale
McMillan, Conway
Marshall, John
Maerburg, Edgar
Martin, Edward
Merrell, Caroline Wallace
Meyer, Wendel John
Middleton, William Shainline
Mickle, Robert Thomas
Miller, Sarah Pleis
Milligan, Elizabeth (Bolger)
(Mrs. Oswald Milligan)
Mills, Charles Karsner
Mills, Coleman Sellers
Moore, John Percy
Morgan, Randal
Moyer, Jay Bird
Müller, John Hughes
Nichols, Edson Hoyt
Nolan, Thomas
Norton, John Treadwell, Jr.
Nutt, John Budd
Oakley, Thornton
Osborne, Charles Francis
O'Shaughnessy, Louis
Outerbridge, George Whitney
Owens, Robert Bowie
Partridge, Edward Asa
Patterson, Carl Van Schaick
Patterson, James Lawson
Pearce, Richard Mills, Jr.
Pepper, William
Pemberton, Ralph
Penrose, Charles Bingham
Piersol, George Arthur

PENNSYLVANIA—Continued

PHILADELPHIA—Continued
Piersol, George Morris
Platt, Haviland Hull
Plummer, George William
Pyle, Clyde Beethoven
Reichert, Edward Tyson
Richards, Alfred Newton
Richards, Horace Clark
Rieser, Webster Luther
Riesman, David
Rivas, Damaso
Robinson, Frank Crowl
Rockwell, George Ward
Roe, Ralph Burt
Rogers, Frank Henkels
Rose, William Cumming
Rosengarten, George David
Rosengarten, Walter Edward
Rosin, Joseph
Rowland, William Lee
Rumbold, Caroline
Safford, Frederick Hollister
Sautter, Albert Carl
Saxon, Gordon Joel
Schatz, Harry Abraham
Schlatter, Hugo
Schramm, Adolph William
Schwatt, Isaac Joachim
Schweinitz, Georg Edmond de
Scofield, Edson Mason
Scofield, Glenn Mason
Seal, Alfred Newlin
Shinn, Owen Louis, Jr.
Silverman, Jacob George
Silverman, Max
Simon, Fred Lester
Singer, Edgar Arthur, Jr.
Sinkler, Francis Wharton
Skinner, James Mortimer
Smith, Allen John
Smith, Arthur Thomas
Smith, Edgar Fahs
Smith, George Lathrop
Smith, Livingston
Spangler, Henry Wilson
Spitzka, Edward Anthony
Spoerl, Christian George
Stanford, J. Verne
Stauffer, John Barr
Stengel, Alfred
Sternfeld, Harry
Stradling, George Flowers
Schweintz, George Edmund de
Sweeney, Orland Russell
Sweet, Joshua Edwin
Taggart, Walter Thomas
Taylor, Alonzo Englebert
Taylor, William Purves
Terry, Arthur Linville, Jr.
Thomas, Nathaniel Wiley
Torian, Oscar Noel
Tourison, Ashton Steven, Jr.
Towle, Elizabeth
Tracy, Joseph Henry
Travis, Charles
Troelsch, Henry William
Turnbull, William Gray
Tuttle, Lucius
Twitmyer, Edwin Burket
Urban, Frederick Maria
Udinsky, Hyman Josepf
Van Loon, Frank Russell
Vogelson, John Albert
Wagner, Samuel Tobias
Warwick, Charles Laurence
Webb, Walter Loring
Webster, George Smedley
Weiss, John Morris
Welker, William Henry
Whetstone, William Berry
Whitney, Philip Richardson
Wildman, Edward Embree

PHILADELPHIA—Continued
Wilkinson, William MacIlhenny
Williams, Samuel Borton
Willis, Clarence Addison
Wills, Louis Albert
Winterstein, Clarence C.
Witmer, Lightner
Wood, Henry Dunn
Wynkoop, Frederick
Zieber, Edward Herman

PHOENIXVILLE
Coyle, David Cushman
Rulon, Samuel Archer, Jr.

PITTSBURGH
Albrech, Maximilian Claude
Alger, Jarvis Howard
Amsler, Walter Otto
Ashley, Harrison Everett
Atherton, Alfred Leroy
Atherton, Carlyle Adams
Bacon, Raymond Foss
Baker, Samuel Sweigart
Barney, Jesse Edmund
Beck, William Porter
Bethel, Charles Hugh
Birney, Emmet Hamilton
Bishop, Frederic Lendall
Boyd, William, Jr.
Brooks, Clyde
Brownlee, Roy H.
Brunker, Albert Ridgely
Carpenter, David Ellsworth
Chandler, Sellers McKee
Clark, Clinton Willard
Clark, Hugh
Comstock, George Frederick
Connor, Isaac Baum
Cornelius, Martin
Crossfield, Albert Scott
Darrah, William Austin
Dennison, Boyd Coe
Dyche, Howard Edward
Easton, William Hastings
Egy, Willard Leo
Farnsworth, Sidney Woods
Fay, Albert Hill
Feicht, Bertha (Lamme)
(Mrs. Russell Stemson Feicht)
Feicht, Russell Stemson
Fickes, Edwin Stanton
Fieldner, Arno Charles
Fleeger, Burtner
Fleming, Thomas, Jr.
Gemmill, Edwin Leroy
Gibbs, Jesse Berthold
Gray, Leslie Jackson
Griffith, John Howell
Guthrie, Charles Claude
Hailman, James Dickey
Hardin, Charles Marks
Haythorn, Samuel Reese
Hector, Lewis Henry
Hendrickson, George Lansing
Henry, Donald Alison
Hoffman, Charles
Hower, Harry Sloan
Hufnagel, Frederick Bernhard
Ireland, Harold Leader
Jennigs, Otto Emery
Jessel, Henry Rose
Kahl, Paul Hugo Isador
Keetch, Harry Livingston
Kemble, Edwin Crawford
Kernohan, Robert
Kerr, Allen Meredith
Kindl, Fred Henry
Kingsbury, Albert
Klein, Abraham Albert
Knote, John McBride
Kohman, Henry Adolph
Kunkel, Fred Raymond

PENNSYLVANIA—Continued

PITTSBURGH—Continued
Lamme, Benjamin G.
Lincoln, Paul Martyn
MacChesney, James Everingham
McGoodwin, Henry Kerr
Mace, Donald Howe
Mackey, John Francis
Merrill, Ferrand Seymour
Mott, William Elton
Myer, Arthur Henry
Newbury, Frank Davis
Ovitz, Frank Keehn
Parmelee, Paul Ross
Pendergrass, Robert Allen
Phelps, Wyllys Irvin
Randall, Karl Chandler
Rowe, William Alphonso
Schlatter, Hugo
Schleiter, Howard Gustav
Schluederberg, Carl George
Scholes, Samuel Ray
Schwab, Henry Arthur
Sheldon, Ralph Edward
Shuey, Ralph Clement
Stimson, George William
Storer, Norman Wilson
Taber, Ray Howard
Taylor, Horace Van Sands
Taylor, Granville Lewis
Taylor, Robert Cromwell
Thompson, William
Todd, John William
Tylee, Don Orville
Utley, Frederick Brown
Vogt, Clarence Charles
Vogt, Lou Helen Morgan (Vogt, Mrs. C. C.)
Wadsworth, Frank Lawton Olcott
Walton, Jesse Pusey
Watkins, Clarence Bingham
Wenrich, Calvin Naftzinger
Wilson, Herbert Michael
Wohlenberg, Walter Jacob
Wood, Harrison Haskell
Work, William Roth
Wright, George Jesse
Zahnleiter, Albert William
Zeller, Carl Abell

POTTSTOWN
Evans, Charles Tyndall
Jones, Jonathan
Smith, Stanley
Wilds, Joseph Smith, Jr.

POTTSVILLE
Powers, Frank Ethelwulf
Wright, Reginald Ashmun

READING
Bertolet, William Shaeffer
Gerhard, Charles Herbert
Gerhard, James Rieser
Illmer, Louis
May, Albert John
Rhode, Homer Jonas

RIDGEWAY
Balderston, Lloyd
Bell, Cliff Roland
Hall, Thomas
Thompson, Milton Ellsworth

ROSEMONT
Vanclain, Samuel Matthews

ST. DAVIDS
Tomlinson, Howard Earle

ST. MARYS
Sohn, Erwin

SAYRE
Bishop, Howard Elmer

SCRANTON
Belin, Paul Beck

SCRANTON—Continued
Falkowsky, Charles, Jr.
Kiesel, Ernest Louis Alexander
Martin, John Lowrey
Sanford, Edwin William

SHARON
Kranz, William George
Marquardt, William Benjamin

SOUTH BETHLEHEM
Babasinian, Vahan Simon
Beattie, Frederick Steere
Colby, Albert Ladd
Cressy, Charles Royal
Dolt, Maurice Lois
Franklin, William Suddards
Hall, Robert William
Howarth, Harry Arthur Stevens
Miller, Benjamin Leroy
Wherry, Edgar Theodore

STATE COLLEGE
Brown, Thomas Clachar
Bartholomew, Harold Criswell
Myers, Charles Emory
Clevenger, Joseph Franklin
Cochel, Wilbur Andrew
Crane, Walter Richard
Diemer, Hugo
Eddy, Milton Walker
Fulton, Harry Roscoe
Ham, William Ross
Hill, John Benjamin
Hunt, Thomas Forsyth
Linville, Clarence Philander
Moore, Elwood S.
Myers, Charles Emory
Noll, Charles Franklin
Smith, Edwin Raymond
Steeker, Henry Freeman
Stewart, John Pogue
Stoddart, Charles William
Walker, Elton David

STEELTON
Asseln, Emil
Hilpert, Meier George

SWARTHMORE
Barton, Samuel Goodwin
Blessing, George Frederick
Gay, Catherine Emily (Andrews) (Gay, Mrs. C. W.)
Lewis, George William
Marriott, Walter Ross
Miller, John Anthony
Trotter, Spencer
Ward, Hiram Lee

SYLVANIA
Card, Fred Wallace

TARENTUM
Magee, Louis Austin

WALLINGFORD
Baker, John Alexander

WASHINGTON
Winchester, George

WAYNE
O'Neal, Alexander Hay

WELLSBORO
Harrison, George Albert

WERNERSVILLE
Tonnelier, John Edmund

WEST CHESTER
Evans, Henry Sebastian

WESTGROVE
Jones, Lloyd Balderston

WILKINSBURG
Flanders, Warren Beebe
Hornung, Frank Walter
Shear, Verne Warren

PENNSYLVANIA—Continued

WILKES-BARRE
McClintock, Andrew Todd

WILMERDING
Dudley, Samuel William

RHODE ISLAND

GREENE
Perry, Charles Manchester

KINGSTON
Hadley, Philip Bardwell
Hartwell, Burt Laws
Webster, Samuel Harvey

NEWPORT
Howe, Ernest
Irvine, William Lorne

PAWTUCKET
Clapp, Samuel Hopkins
Davison, Herbert Franklin

PROVIDENCE
Abramson, Harry Louis
Appleton, John Howard
Bailey, William Whitman
Barus, Carl
Brooks, J. Ansel
Brown, Charles Wilson
Browne, William Ward
Bucher, John Emery
Burton, Ada Irene
Cady, William Hamlin
Calder, Edwin Eddy
Caswell, Robert Gamble
Chace, Arnold Buffum
Chambers, Robert Foster
Chapin, Charles Value
Collier, Janet (Sheldon) (Collier, Mrs. Theodore Frelinghuysen)
Collins, James Franklin
Cooke, Charles Osmond
Currier, Clinton Harvey
Dale, Nelson Clark
Davis, Nathaniel French
Delabarre, Edmund Burke
DeWitt, Stewart Lloyd
Edmundson, Harold Bowen
Elliott, Huger
Farwell, Albert Potter
Ferrey, Fred Gilbert
Field, Robert Franklin
Flagg, Arthur Leonard

PROVIDENCE—Continued
Fulton, Frank Taylor
Gorham, Frederick Poole
Hall, James Alexander
Hill, John Edward
Holt, Norman Edward
Hutchins, Roland Ellis
Huxford, George Thomas
Johnson, Frank Elmer
Kelly, John Vincent
Kenerson, William Herbert
Lasker, Julius
Loepsinger, Albert John
Madison, Harold Lester
Manning, Henry Parker
Mead, Albert Davis
Mead, Ada Geneva (Wing) (Mead, Mrs. Albert Davis)
Meiklejohn, Alexander
Miller, Harold Edmund
Mitchell, Philip Henry
Palmer, Albert de Forest
Patterson, Irving Wooster
Perkins, Jay
Phetteplace, Thurston Mason
Purdie, David James
Rackle, Oscar William
Randall, Otis Everett
Richardson, Roland George Dwight
Ross, William Nisbet
Smith, George Hawthorne
Smith, Walter Edward
Taylor, Frank Carter
Upton, Winslow
Walter, Herbert Eugene
Watson, Arthur Eugene
Watt, Martha Wilbur
Wilcox, Alice Wilson
Winslow, Arthur Melvin
York, Harlan Harvey

WICKFORD
Barnes, Ernest Warren

WARWICK
Suffa, Mary Clegg

SOUTH CAROLINA

CHARLESTON
Rockwell, James Vincent

CLEMSON
Barre, Henry Walter

CLEMSON COLLEGE
Gee, Wilson Parham

COLLETON
Frank, John Nickalas

SOCIETY HILLS
Blair, Frank Joseph, Jr.

SPARTANBURG
Kreisinger, Henry

SOUTH DAKOTA

ABERDEEN
Poore, Charles Delos
Walter, Frederick Joseph

BROOKINGS
Brackett, Byron Briggs
Cook, Robertson
Corbin, Charles Edgar
Hume, Albert Nash
Miller, Shirley Putnam
Olive, Edgar William
Severin, Harry Charles
Wagner, Adolph W.

LEAD
Herz, Nathaniel
Sharwood, William John

MITCHELL
Sherwood, Edward James
Wheeler, William Archie

RAPID CITY
Coolbaugh, Melville Fuller

REDFIELD
Norris, John Hiram

SIOUX FALLS
Wilson, Josie

SUMMIT
Lindberg, Arvid C.

TROJAN
Hiltner, Martin Edward

SOUTH DAKOTA—Continued

VERMILION
Pell, Anna, (Johnson)
(Pell, Mrs. Alexander)

WATERTOWN
Hatz, Earl Washington

WEBSTER
Ebert, Michael Higgins

YANKTON
Leibee, Hugh Case

TENNESSEE

CHILHOWEE
Ramser, Charles Ernest

CONCORD
Phillips, Adams

COPPER HILL
Case, Albert Hermon

DECHERD
Hines, Bedford Forrest

KNOXVILLE
Bentley, Gordon Mansir
Buchanan, Herbert Earle
Cotton, Edwin Charles
Gordon, Charles Henry

KNOXVILLE—Continued
Jarvis, Royal Preston
Jones, Forrest Robert
Ogden, Robert Morris

MEMPHIS
Backes, Walter Peter
Houk, Ivan Edgar
Williams, Wilbur S.

NASHVILLE
Ainslie, George Gooding
Balcom, Reuben Wilfred
Hight, Jonas Ewing
Pranke, Edward J.
Washburn, Frank Sherman

TEXAS

AUSTIN
Bantel, Edward Christian Henry
Brown, Newton Henry
Casteel, Dana Brackenridge
Dodd, Edward Lewis
Gracey, George Fay
Heald, Frederick DeForest
Kuehne, John Matthias
Lewis, Isaac McKinney
Patterson, John Thomas
Porter, Milton Brockett
Simonds, Frederick William
Yoakum, Clarence Stone

COLLEGE STATION
Blake, John Charles
Francis, Mark
Smith, Harry Ezra

DALLAS
De Hart, Otto Dell
Hess, Frederick Edward
McGregor, Ernest Alexander
Maryott, Carlton Howard
Noyes, Edward Newton
Pierce, William Dwight

EI PASO
Kohlberg, Herbert S.

FORT WORTH
Zane-Cetti Carolus Hermann

HONDO
Shaw, William Francis

HOUSTON
Baldwin, John Mayhew
Higginbotham, Blanche
Jacobs, Julius Lilien

KINGSVILLE
Miles, Martin Emmet
Miles, Amy Bell
(Miles, Mrs. Martin Emmet)

LA PRYOR
Van Berg, Ora Elmer

RAYMONDVILLE
Newhall, William Barrett

TEMPLE
Schenck, Charles Plume

UTAH

BEAVER
Haddaway, Thomas Sherwood

EUREKA
Griggs, Charles Clifton
Squire, Everett Adams

GUNNISON
Roush, Leroy Walter

LOGAN
Ball, Elmer Darwin
Harris, Franklin Stewart
Jensen, Christian Nephi
Stewart, Robert
West, Franklin Lorenzo

ODERVILLE
Carroll, William Ernest

OGDEN
Henderson, William Williams

PARK CITY
Blood, George Deroy

PROVO
Blood, George Deroy
Davoud, Vahram Edward
Homer, Philena Fletcher
(Homer, Mrs. William Harrison)
Jarvis, Clarence Sylvester
McAllister, Daniel Handley
McMinn, Walter James
Merrill, Ambrose Pond
Wright, Albert Eugene

SALT LAKE CITY
Beckstrand, Elias Hyrum
Beyer, Theodore Alexander
Bradley, Henry Franklin
Brown, Robert King, Jr.
Chamberlin, Ralph Vary
Ebaugh, William Clarence
Eager, Katharine Louise
Filer, Walter George
Hanauer, Monroe
Hovey, Ray Palmer
Kelly, Walter Lockwood
Kirtley, Luther Lycurgus
Knowlton, Ansel Alphonso
Kremers, Clarence Henry
Lyman, Richard Roswell
Mattill, Henry Albright
Pack, Frederick James
Peterson, Joseph
Reeves, Miriam Ursula (Welles)
(Reeves, Mrs. G. J.)
Schulte, Walter Gustav Adolph
Snow, Clarence
Sundwall, John
Thiessen, Alfred Henry
Twiss, Wilfred Charles
Tyree, Joseph Edgar
Vorhies, Charles T.

TOOELE
Kuchs, Oscar M.

VIRGINIA

ASHLAND
Mallory, William Garfield

BLACKSBURG
Barlow, William Edward
Reed, Howard Sprague

BLUEMONT
Blair, William Richards

CHARLOTTESVILLE
Bird, Robert Montgomery
Edgar Graham
Watson, Thomas Leonard

HAMPTON
Sniffen, Ernest William

KEOKEE, LEE CO.
Judd, Harry Edson

LYNCHBURG
Douglas, Gertrude Elisabeth

NEWPORT NEWS
Norton, Harold Frederick

NORFOLK
Chambers, Frank Taylor
Cole, Pleasant Theodore

NORTH HOLSTON
Wilder, Frank Alonzo

PORTSMOUTH
Burrell, Glenn Smith
Noyes, Ellis Bradford
Rice, Ray Howard

RICHMOND
Hoadley, Edward Mills
La Roque, George Paul

STUARTS DRAFT
Cline, Justus Henry

SWEET BRIAR
Howland, Ruth B.

WILLIAMSBURG
Harvey, Edward Maris

WINCHESTER
Hart, William Edward

VERMONT

BENSON
Washburne, Robert Hoosick

BURLINGTON
Bennett, Charles Barrows
Burns, George Plumer
Chamberlain, Frank Wilbut
Cummings, Marshall Baxter
Stetson, John Minor
Upson, Walter Lyman

ENOSBURG FALLS
Best, Everett J.

RUTLAND
Stevens, Franklin Rand

SOUTH STARCKSBORO
Birdsall, Joseph Cooper

WESTMINSTER STATION
Parkhurst, Harleigh

WASHINGTON

BELLINGHAM
Philippi, Henry Clair

BREMERTON
Foster, Richard
Squire, Harry Edwin

BURLINGTON
Clark, Lois

CENTRALIA
Scace, Lee Arbor

CHENEY
Hungate, Joseph Wynne

COLFAX
Johnson, Arthur Monrad
St. Sure, Frank A.

DU PONT
Gladding, Ernest Knight

ELLENSBURG
Pope, Arthur Baker Stanley

EVERETT
Fee, Louis Henry

FORT CASEY
Sargent, Erle Hoxsie

GRANDVIEW
Thompson, Harriet E. (Dunton)
(Thompson, Mrs. N. H.)

IRONDALE
Merzbacher, Aaron

METALINE
Dehuff, Arthur Isadore

MILES CITY
Burger, Ellen Adelia (Lamoreaux)
(Burger, Mrs. J. Archie)

NORTH YAKIMA
Hasbrouck, Philip Bevier
Lane, John Edward
Keeler, Sybil May (Wheeler)
(Keeler, Mrs. Charles Edgar)
Loudon, John Parker

OMAK
Keller, Frank H.

OLYMPIA
Lovejoy, Parish Storrs
Lovejoy, Ruth Harrison
(Lovejoy, Mrs. Parish Storrs)

PULLMAN
Akers, Milton Kent
Beattie, Rolla Kent
Fulmer, Elton
Humphrey, Harry Baker
Melander, Axel Leonard
Millington, Howard Guy
Shedd, Solon
Thatcher, Roscoe Wilfred
White, Paul J.

PUYALLUP
Lawrence, William Hurford

ROSLYN
Flaherty, Guy

SEATTLE
Allen, Louise Marie
Beaulieu, Richard Laurence
Beckett, Bergie Barrie
Beecher, Henry Ward
Benson, Henry Kreitzer
Bowlby, Henry Lee
Brakel, Henry Louis
Brandel, Irvin Walter
Buol, Edward Martin
Burkheimer, Ira Arthur
Bushnell, Horace Leland
Byers, Horace Greeley
Clise, Charles Francis
Corbet, Darrah
Crawford, Magnus Tate
Dehn, William Maurice
Denny, Edward Harold
Dewey, Albert Haskin
Eastwood, Everett Owen
Engstrom, Roy Victor

WASHINGTON—Continued

SEATTLE—Continued
Frye, Theodore Christian
Fuller, Almon Homer
Gibbons, Charles Bayard
Gould, James Edward
Grondahl, Lars Olai
Harris, Charles William
Hemmingway, Ernest Eugene
Hopkins, Raymond Allen
Howard, Arthur Day
Hunt, John Wilson
Isham, Alonzo Keyt
Johnson, Charles Willis
Johnson, Frank Edward
Kahan, Sarah Edna
Karrer, Enoch
Karrer, Sebastian
Kincaid, Trevor
Kurt, Friedrich Johannes Kirsten
Landes, Henry
MacLachlan, Margaret Mae
McCaustland, Elmer James
Magnusson, Carl Edward
Mallory, Charles Earl
Maxson, Louis Herbert
Miller, Alvin Augustus
Miller, Frank Garner
More, Charles Church
Moritz, Robert Edouard
Morrison, Frank Marion
Morrison, Bessie Eleanor Crowe (Morrison, Mrs. Frank Marion)
Neikirk, Lewis Irving
Osborn, Frederick Arthur
Phipps, Thomas Elmer
Provine, Loring Harvey
Quense, John Henry
Roberts, Milnor
Rose, Robert Evstafieff
Shamel, Charles Harmonas

SEATTLE—Continued
Smail, Lloyd Leroy
Smith, Eli Victor
Stevens, Herman Campbell
Stranberg, George Robert
Wagner, Walter Calvin
Weaver, Charles Edwin
Weber, Ervin L.
Weinzirl, John
West, Judson Ray
Wilson, George Samuel
Winkenwerder, Hugo
Zimmerman, Louis Peter

SPOKANE
Dodds, Fabian Bouton
Foster, Ebert Arnold
Kjosness, Ingram Gerhard
Linney, William Henry
McDougal, Taine Gilbert

SUMNER
Shannon, William Day

TACOMA
Breedlove, John Cromwell
Ells, Walter Crosby
Green, Herlwyn Ruggles
Kastner, Jessie Jane (Bullock) (Kastner, Mrs. Herebert)
Lewis, Burt A.
Rathbun, John Charles
Rowell, Philip Jones
Wheeler, Harold Sayre

VANCOUVER
Gearheart, Olive Merrill (Chase) (Gearheart, Mrs. George W.)

WASHTUCUA
Bogue, Nathan Herschel

WENATCHEE
Holland, Jay Clark

WEST VIRGINIA

CHARLESTON
Demmler, Paul Edward

FAIRMOUNT
Bonnett, Edwin Spilman

GLEN FERRIS
Koch, Alfred Richard

GLENOVA
Bedell, Carl Ensley

MARTINSBURG
Grimsley, George Perry

MORGANTOWN
Jones, Clement Ross
Kortright, Frederick Lawrence
Munson, Welton Marks
Reese, Albert Moore
Sanderson, Ezra Dwight

MORGANTOWN—Continued
Sheldon, John Lewis
Waggoner, Chauncy William

NORFOLK
Stamford, Albert

PARKERSBURG
Carll, Samuel Peaslee

SHEPARDSTOWN
Schedler, Carl William

ST. ALBANS
Stark, Medary Wilson

WEIRTON, HANCOCK CO.
Collins, John Edward

WHEELING
Speidel, Jesse Wheat

WISCONSIN

APPLETON
Bagg, Rufus Mather

BARKSDALE
Lawley, Walter Fred

BELOIT
Culver, Charles Aaron
Densmore, Hiram Delos
McLeod, Andrew Friedley
Waugh, Karl Tinsley
Yost, Lloyd

BERLIN
Walker, Emory Lafayette

ELSWORTH
Oyen, Martin

MADISON
Allen, Bennett Mills
Allen, Charles Elmer
Aston, James
Baker, Ray Luzerne
Bardeen, Charles Russell
Barnebey, Oscar Leonard
Baumgartner, Edwin Abraham
Beebe, Murray Charles
Bennett, Edward
Birge, Edward Asahel
Birge, Raymond Thayer
Blackwelder, Eliot
Bradley, Harold Cornelius
Bristol, Howard Stanley
Bumpus, Hermon Carey
Bunting, Charles Henry

WISCONSIN—Continued

MADISON—Continued
Burgess, Charles Frederick
Burgess, Horace Thomas
Burnett, Earl Smead
Burns, Josephine Elizabeth
Butler, Ormond Bourke
Carleton, Paul Whittier
Christie, Alexander Graham
Cline, Mcgarvey
Cole, Leon Jacob
Comstock, George Cary
Conrey, Guy
Corp, Charles Ives
Currie, James Nimrod
Dahm, Thomas Matthew
Daniells, William Willard
Davis, George Jacob, Jr.
Davis, John Jefferson
Deming, Horace Grove
Denniston, Rollin Henry
Dietrichson, Gerhard
Disque, Robert Conrad
Doolittle, Frederick William
Dowling, Linnaeus Wayland
Dresden, Arnold
Ellingson, Emil Oscar
Eyster, John Augustine English
Faber, Daniel Cleveland
Farrington, Edward Holyoke
Finch, Vernon Clifford
Fischer, Richard
Flint, Albert Stowell
Forsythe, William Elmer
Frost, William Dodge
Fulcher, Gordon Scott
Fuller, Caleb Allen
Gage, Otis Amsden
Gilbert, Edward Martinius
Gray, Frank
Griffith, Edward Merriam
Guyer, Michael Frederick
Hambuechen, Carl
Hart, Edwin Bret
Hastings, Edwin George
Havard, Francis Thompson
Hawley, Lee Fred
Henmon, Vivian Allen Charles
Henry, William Arnon
Hill, Charles Warren
Hoffman, Conrad
Holden, Edwin Chapin
Holmes, Samuel Jackson
Hotchkiss, William Otis
Humphrey, Clarence John
Ingersoll, Leonard Rose
Jansky, Cyril Methodius
Jastrow, Joseph
Jones, Lewis Ralph
Juday, Chancey
Kahlenberg, Louis
Kempfer, William Herbert
Kinne, William Spauling
Klein, David
Koenig, Alfred Edward
Kowalke, Otto Louis
Krauskopf, Francis Craig
Kremers, Edward
Kressman, Frederick William
Kundert, Alfred Emil
Lawrence, James Nelson
Lee, Carl Emil
Leith, Charles Kenneth
Lenher, Victor
Loevenhart, Arthur Solomon
Ludy, Llewellyn V.
Mack, John Givan Davis
Mann, Charles August
March, Herman William
Marshall, William Stanley
Martin, Lawrence
Mason, Max

MADISON—Continued
Mathews, Joseph Howard
Maurer, Edward Rose
McBride, Russell Smith
McCauley, George Vest
McCollister, Marcus Sanders
McCollum, Elmer Verner
Mead, Daniel Webster
Mead, Warren Judson
Meek, Walter Joseph
Melhus, Irving E.
Mendenhall, Charles Elwood
Miller, Eric Rexford
Miller, William Snow
Musback, Fred Ludwig
Nebel, Walter
Nyberg, Joseph Antonius
Overton, James Bertram
Packard, Horace Nelson
Palmer, Robert Conrad
Pence, William David
Peterson, Peter Powell
Phillips, James David
Price, John Reese
Ravenel, Mazyck Porcher
Reber, Louis Ehrhart
Richter, Arthur William
Roark, Ruric Charles
Roebuck, John Ransom
Russell, Harry Luman
Sanders, James Glosbrenner
Sanford, Herbert Brooks
Sandsten, Emil Peter
Skinner, Ernest Brown
Slichter, Charles Sumner
Smith, Leonard Sewall
Snow, Benjamin Warner
Starch, Daniel
Steenbock, Harry
Steidtmann, Edward
Stewart, Alban
Surface, Henry Earl
Tatum, Arthur Lawrie
Terry, Earle Melvin
Thelen, Rolf
Thorkelson, Halsten Joseph Berford
Thomas, Carl Clapp
Thwates, Frederick Turville
Trueman, Joseph Douglass
Tully, Edward Joseph
Turneaure, Frederick Eugene
Turner, Ebenezer Tousey
Van Hise, Charles Richard
Van Vleck, Edward Burr
Vosskuehler, Joseph Henry
Wagner, George
Walton, James Henri
Walster, Harlow Leslie
Watson, James Webster
Watts, Oliver Patterson
Weidman, Samuel
Weiss, Howard Frederick
Whitbeck, Ray Hughes
White, Earl Archibald
Whitson, Andrew Robinson
Wilcox, Wendell Garrett
Winchell, Alexander Newton
Withey, Morton Owen Withey
Wolff, Henry Charles
Woll, Fritz Wilhelm
Zobel, Otto Julius

MANITOWOC
Richter, Arthur William
Wallace, William Lewis,, Jr.

MENOMONEE
Egdahl Anfin,

MILWAUKEE
Balzer, George John
Barrett, Samuel Alfred

WISCONSIN—Continued

MILWAUKEE—Continued
Burrill, Paul Colburn
Candee, Allan Harry
Child, Alice May
Clark, William Otterbein
Collins, Willis
Foote, Edward Thaddeus
Hall, Allan Everett
Harmon, Lucie
Harsh, Earl Clarence
McKinnon, William Rennie
McMaster, Robert Keith
Nicht, Alexander Joseph, Jr.
Rose, Jennie M. (Speer)
Sanford, Arthur Hawley
Scherner, John
Shorey, Marian Lydia
Smith, Kenneth Gardner
Sperry, Leonard Boyd
Stevens, William Thomas
Thorpe, Joel Rex
Torelle, Ellen
Twining, Granville Howard
Wagner, Richard George
Welborn, Edgar Calvert
Williamson, Robert Baird
Wilson, John Crosier

MINERAL POINT
Kelsey, Weston Maynard
NASHOTAH
Easton, Burton Scott
OSHKOSH
Ferguson, Frank Alexander
PHILLIPS
Guthier, Cora
RACINE
Standish, Sherwood Hubbard
REEDSBURG
Quimby, Catherine (Hillesheim)
(Quimby, Mrs. H. B.)
SHELL LAKE
Lewis, Charles L., Jr.
SUPERIOR
Goddard, Henry Newell
Squire, Carrie Ranson
(Squire, Mrs. William Nelson)
WEST ALLIS
Einig, Alvin Bart
WILLIAMS BAY
Barnard, Edward Emerson
Frost, Edwin Brant
Slocum, Frederick

WYOMING

CHEYENNE
Baker, LeRoy Nelson
Prosser, Dean Truxell
CODY
Sheidler, Paul King
HUDSON
Wescott, Frank Howard
LARAMIE
Boyle, Albert Clarence, Jr.
Downey, June Etta

LARAMIE——Continued
Heyl, Frederick William
Knight, Henry Granger
McGee, John Merritt
Stromquist, Carl Eben
Swingle, Leroy Dey
FORT D. A. RUSSELL
Park, Charles Abraham
YELLOWSTONE PARK
Lindelee, Charles Gustav

ALASKA

DOUGLAS
Kinzie, Robert Allen
HOLLIS
Grant, R. C.
JUNEAU
Thane, Bartlett Leo
Wollenberg, Harry Lincoln

LA TOUCHE
Dunkle, Wesley Earl
SKAGUAY
Sweet, Anna Edith Corey
(Sweet, Mrs. Lester)

CANAL ZONE

CULEBRA
Fraser, Guy Owen
Grauten, Sylvester Henry
Larzelere, Charles Benham
Rousseau, Harry Harwood
ANCON
Zetek, James

GATUN
Morris, Thomas Carlyle
PANAMA
Brown Arthur Robert

HAWAII

HONOLULU
Cooke, Charles Montague, Jr.
Forbes, Charles Noyes
Fulloway, David Timmons
Gilmore, John Washington
Judd, Charles Sheldon
Lyon, Harold Lloyd
Lyon, Maud (Fletcher)
(Lyon, Mrs. Harold Lloyd)

HONOLULU—Continued
Norris, Robert Stewart
Severin, Henry Herman Paul
Swezey, Otto Herman
Young, John Mason

KEALAKEKUA
Smith, Jared Gage

PHILIPPINE ISLANDS

LOS BAÑOS
Copeland, Edwin Bingham

MANILA
Adams, George Irving
Beyer, Forrest B.
Brooks, Benjamin Talbot
Brown, Roy Alton
Clark, Elbert
Collins, Ray Arthur
Cox, Alvin Joseph
Cutler, Stanley Gardner
Foxworthy, Fred William
Gibbs, Harry Drake
Gomez, Liborio
Griffin, Lawrence Edmonds
Kendall, Charles Hanford
Lhamon, Ruskin
McConoughuy, David Charles

MANILA—Continued
McGregor, Richard Crittenden
Matthews, Donald Maxwell
Pratt, David Shepard
Puckett, Roswell Clair
Richmond, George Fletcher
Robinson, Charles Budd
Robinson, Kendall Edward
Rosario, José I. del
Schulte, Gerd Hayen
Shaw, Walter Robert
Smith, Warren DuPre
Stroebe, George Gottlieb
Velilla, Timotoe Dar Juan y
Wade, Clarence West
Ward, Archibald Robinson
Whitford, Harry Nichols
Wrentmore, Clarence George
Wright, James Remus

PORTO RICO

AGUADILLA
Torregrosa, Arturo

ARECIBO
Casellas, Ramon Ramos

MAYAGUEZ
Fawcett, George Lorenzo

SAN JUAN
Fassig, Oliver Lanard
Hildreth, Edward Raymond

CANADA

ANNAPOLIS ROYAL, N. S.
Magee, William Henry

BRANTFORD, ONT.
Burke, Charles Eldrid

BRITANNIA BEACH, B. C.
Mitchell, Clark Godell

CALGARY, ALBERTA
Schutt, Herbert Davis
Wall, George Albert

DAUPHIN, MANITOBA
Dickson, James Robert

EDMONTON, ALBERTA
Revell, Daniel Graisberry

FILLMORE, SASK.
Allison, Fred Gray

FREDERICTON, N. B.
McGinnis, Claude Stonecliffe

GRAND MERE, ONT.
Sabbaton, Frederick Augustus

GREENWOOD, B. C.
Keffer, Frederick

GUELPH, ONT.
Howitt, John Eaton

HALIFAX, N. S.
Adams, Arthur
Bronson, Howard Logan
Macneill, Murray

KINGSTON, ONTARIO
Buchanan, Daniel
Dickson, Charles William
Gordon, George Huntly
Hyde, Jesse Earl

MONTREAL
Bancroft, Joseph Austen
Cartmel, William Bell
Danziger, Joseph Louis
Hawksworth, David West
Klein, John Edward
Krieble, Vernon Krieble
McCormick, Bradley Thomas
Murray, Daniel Alexander
Porter, John Bonsall
Riley, Harold James
Wright, Bertram Joseph

MOOSE JAW, SASKATCHEWAN
Austin, Clarence Elliott

NEW WESTMINSTER, B. C.
Ferebee, Alan McPherson

OTTAWA
Collins, William Henry
Drysdale, Charles Wales
Foster, Henry Hubbard
Harvie, Robert, Jr.
Keele, Joseph
Reinecke, Leopold
Swaine, James Malcomb
Young, George Albert

PORT COLBORNE, ONT.
Kepner, Ben Hur

REGINA, SASK.
Wenger, Edgar I.

SAULT STE. MARIE, ONT.
Millspaugh, Martin Lawrence

STE. ANNE DE BELLEVUE, QUEBEC
Lynde, Carleton John

ST. CATHARINES, ONT.
Heitmann, Edward

STRATHCONA, ALBERTA
Sheldon, Ernest Wilson

TORONTO
Adams, Erwin Avery
Darby, Clarence Raymond
Fernow, Bernhard Eduard
Howe, Clifton Durant
Isham, Robert Melyne
Knight, Cyril Workman
Lightner, George W. Cass
McMurrich, James Playfair
Sims, Ernest McPherson
Triggerson, Charles John
Wurster, Oscar Herman

TRURO, N. S.
Linton, Orlando Hayward

VANCOUVER, B. C.
Clark, Judson Freeman
Davidson, James Grant
Fletcher, Arthur Bansford

VICTORIA HARBOR
Carter, Edward Fairbank

CANADA—Continued

WALKERVILLE, ONT.
Colby, Archie Lyman
Zabriskie, Charles Christian
WINDSOR, ONT.
James, Carl
WESTMOUNT, QUE.
Ballantyne, Norman Frank
WINNIPEG
Allen, Frank
Wilson, Norman Richard

MEXICO

AVINO
Mead, Harry Levi
CAMPAS, SONORA
Wilson, Philip Danforth
CANANEA, SONORA
Hardy, Norman Gladding
Ruth, Abraham John
EMPALME, SONORA
Weaver, Clarence Eugene
IZANAH, YUCATAN
Gaumer, George F.
LAS ESPERANZAS COAH
Zeller, Howard Patterson
MATEHUALA, S. L. P.
Prescott, Basil
MEXICO CITY
Baum, Isaac M.
Davis, John R.
Judson, Walter Raymond
Mishler, Ralph Thomas
MONTEREY
Bolles, Myrick Nathaniel
Gonzalez, Arturo V.
PACHUCA, HIDALGO
Van Law, Carlos Whitney
PUEBLO
Kyser, Kathryn Belle
ROSINI, SINALOA
Beals, Roger Lee
SONORA
Jackson, Charles Freeman
TEMASCALLEPEC, EST.
Kellogg, Lee Olds
TORREON
Rose, Rial Catlin
TRIUNFO, BAJA CAL.
Nahl, Arthur Charles
VERA CRUZ
Hobert, Mary (McClure)

CENTRAL AMERICA AND WEST INDIES

CARRÈNO, CUBA
Carrèno, Alejo Augustin
CAMOGUEY, CUBA
Burke, William Edmund
Ricarda, Leandro Jose
HAVANA, CUBA
Claret, Francisco Pujals Y
Haggard, Homer Huston
LA PAZ, HONDURAS
Lednicky, Victor Elmer
MATAGALPA, NICARAGUA
Nobs, Frederick William
SAGUA LA GRANDE, CUBA
Brown, Grover Charles
SANTIAGO DE CUBA, CUBA
Chibas, Eduardo Justo
SAN PEDRO, ISLE OF PINES, W. I.
Mead, Charles Searing

SOUTH AMERICA

BUENOS AIRES, ARGENTINA
Jones, Wellington Downing
McKittrick, Frederic James Alexander
Pemberton, John Rothwell
Smith, Pemberton
Washburne, Chester Wesley
CORDÓBA, ARGENTINA
Albrecht, Sebastian
SAN LUIS, ARGENTINA
Quiroga, Modesta
Sanford, Roscoe Frank
LA PAZ, BOLIVIA
Miller, Hiram
ORURO, BOLIVIA
Newsom, John Flesher
Taggart, Arthur Fay
RIO JANEIRO, BRAZIL
Crandall, Roderic
Derby, Orville Adelbert
RIO JANEIRO, BRAZIL—Continued
Waring, Gerald Ashley
Williams, Horace Elbert
SAO PAULO, BRAZIL
Rankin, Robert
COLLAHUASI, CHILE
Mayreis, Louis John
BOGOTA, COLOMBIA
Nieto, Julio Garzon
Reyes, Octavio Mario
MEDELLIN, COLOMBIA
Posada, Juan de la Cruz
CASAPALCO, PERU
Ross, Herbert William
LIMA, PERU
Bües, Christian Rudolf August
Marsters, Vernon Freeman
MONTEVIDEO, URUGUAY
Lee, Montrose Lucius
Salmon, Daniel Elmer

EUROPE

VIENNA, AUSTRIA
Böhler, Richard Frederick
Kann, Leopold
LIVERPOOL, ENGLAND
Higgins, Eric Berkeley
LONDON, ENGLAND
Cushny, Arthur Robertson
Gates, Reginald Ruggles
Hay, Henry
Hoover, Herbert Clark
Hoover, Lou (Henry)

EUROPE—Continued

LONDON, ENGLAND—Continued
Means, John Harrison
Wang, Chung Yu
Webb, Harry Howard

EBBW VALE, MANCHESTER, ENGLAND
Davies, John Percival

OXFORD, ENGLAND
Taber, Howard Alfred

WALES, ENGLAND
Evans, Tringad Knight

PARIS, FRANCE
Duane, William
Rehfuss, Martin Emil

BERLIN, GERMANY
Giacomini, Frank Anthony
Hsia, Yuen-li
Ostwald, Karl Wolfgang
Reinke, Arthur Eduard
Tool, Arthur Quincy
Williams, Robert Neil

FREIBURG, GERMANY
Bolza, Oskar

MUNICH, GERMANY
Augspurger, Louis Fred
Bissell, Leslie Dayton
Gregory, Elisha Hall
Janney, Nelson Wilson

BUCHAREST, ROUMANIA
Murgoci, George Munteami

KISHINEV, RUSSIA
Michael, Louis Guy

PETROVSKY, KHARCOV, RUSSIA
Soukatschoff, Platon Vladimir

EDINBURGH, SCOTLAND
Lawson, Anstruther Abercrombie

MADRID, SPAIN
Fisher, Mary Jones

FINSPONG, SWEDEN
Beckman, Fredrik Ferdinand Woods

GENEVA, SWITZERLAND
Germann, Albert Frederick Ottmar

CONSTANTINOPLE, TURKEY
Burns, Eleanor Irene

ASIA MINOR

BUSRAH, TURKISH ARABIA
Bennett, Anna Christine (Iverson)

SMYRNA
Fontrier, Mico Militiades Achilles

ASIA

CANTON, CHINA
Hu, Tung Chao
Ow, Ching Ko
Tong, Yau Hang
Wen, Ching Yu

CHANGSHA, CHINA
Hume, Edward Hicks
Yen, Foh-Chung

FOOCHOW, CHINA
Black, Edward Freyling

KOSHING, CHEKIANG, CHINA
Chang, Tatsung

MUKDEN, MANCHURIA
Parker, Edward

NANKING, CHINA
Evans, Philip Saffery, Jr.

PEKING, CHINA
Eckstein, Oskar
Hall, Francis Jenks
Whitmore, Ralph Delano
Wold, Peter Irving

SHANGHAI, CHINA
Patten, William Edgar
Fullerton, Ellen Clark

TIENTSIN, CHINA
Bateman, William George

TSINAN, SHANTUNG, CHINA
Schultz, William Magill

WEIHSIEN, SHANTUNG, CHINA
Chandler, Horace Edward

WEIHSIEN, CHINA
Chandler, Horace Edward

YOCHOW, CHINA
Moran, Edward Eugene

CALCUTTA, INDIA
Sil, Surendra Nath

RAWAL PINDI, INDIA
Stewart, Ralph Randles

KITAYAMASAKI, IYO, JAPAN
Saiki, Tadasu

KUMAMOTO, JAPAN
Nambu, Tsunejiro

KURUME, JAPAN
Sakac, Yasudiro

KYOTO, JAPAN
Matsumoto, Matataro
Nakaseko, Rokuro

NAMAZU SHIZUOKA-KEN, JAPAN
Hayashi, Kiyonori

OKAYAMA, JAPAN
Mijake, Ishiro

TAKAHASHI, JAPAN
Makino, Kengo

TOKIO, JAPAN
Arakawa, Bunrokn
Kuwana, Shinkai Inokichi
Mayessawa, Hatsuji
Miaké Küchi
Mishima, Yataro
Nakano, Hatsune
Nakashima, Taizo
Sano, Shiro
Takahashi, Katashi
Yamanouchi, Shigeo
Yatsu, Naohide

YAMATO, JAPAN
Yamazaki, Shiro

YOKOHAMA, JAPAN
Messer, Paul
Oi, Hiromitsu

NAGAWA, YOKOSUKA, JAPAN
Kimura, Skunkichi
Onuki, Riojo

KANGKAI, KOREA
Bigger, John Dinsmore

SEOUL, KOREA
Lewis, Margo Lee

SONGDO, KOREA
Higgins, Daniel Franklin

SUA MOT KOL SEOAL, KOREA
Smith, Roy Kenneth

TARACOL, KOREA
Drucker, Arthur Eilbert

AFRICA

GRAHAMSTOWN, CAPE COLONY
Duerden, James Edwin
WELLINGTON, CAPE COLONY
Stoneman, Bertha
KINSHASA, CONGO BELGE
Shaler, Millard King
ASSUIT, EGYPT
Hickman, William Weldon
DURBAN, NATAL
Evans, Alfred Winter
BLOOMFONTEINE, ORANGE FREE STATE
Robertson, Colin Charles
BULAWAYO, RHODESIA
Craig, John Walker
SALISBURY, RHODESIA
Brown, William Harvey
CAPE TOWN, SOUTH AFRICA
Dick, M. Everett
Overbeck, John Bagot
JOHANNESBURG, SOUTH AFRICA
Hoffman, Karl Frederick
Mein, William Wallace
KIMBERLEY, SOUTH AFRICA
Williams, Alpheus Fuller
PRETORIA, SOUTH AFRICA
McDonald, William
BENONI, TRANSVAAL
Nichols, John Carroll

AUSTRALIA

ADELAIDE, SOUTH AUSTRALIA
Smith, Harold Whitmore
Tassie, Robert Wilson
MELBOURNE, AUSTRALIA
Mead, Elwood
SYDNEY, N. S. W.
Barraclough, Samuel Henry
Halloran, Harry Richmond

PRESENT ADDRESS UNKNOWN

Catherinet, Jules
Dickenson, Ernest Hesthcote
Ferguson, William Hastings
Foote, Paul Darwin
Frudden, Conrad Edwin
Hsin Yao-Chang H.
Kiski, Teruo
Newmayer, Harry
Phelan, Robert Early
Sims, Alfred Varley
Stoppel, Ernest
Wisdom, George Paul

DECEASED

Adams, Ernest Kempton
Adler, Alex
Angle, Claribel
Anthony, William Arnold
Austen, Peter Townsend
Bailey, Frank Kelton
Banister, Joseph Ray
Barker, George Frederick
Barnes, Charles Reid
Beecher, Charles Emerson
Bell, Charles Bell
Berger, John Jacob
Bergstrom, John Andrew
Bessey, Edward Athearn
Beyer, Adam Carl
Bowser, Edward A.
Brandon, Samuel Craighead
Braum, Walter Charles Emil
Brown, Christopher Newton
Bucknell, Elmer James
Buel, George D.
Burcham, John Samuel
Burr, Rollin Hillary
Burrage, Herbert Farwell
Busekum, Richard Van
Caldwell, George Chapman
Calvin, Samuel
Carnell, Frederic James
Carr, Leonard Jarvis
Casseday, George Albertus
Challen, Thurston Walker
Chamberlin, Robert Morse
Chandler, Perley Bickfad
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Krauss, William Christopher
Krautter, Louis, Jr.
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Landers, Herbert Henry
Lanphear, Burton Smith
Little, Livingston J.
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Magowan, Charles Scott
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